
FINAL ENGINEERING REPORT

for

**FORMER ROCKET JEWELRY BOX SITE
414 Gerard Avenue
Bronx, New York
Block 2350, Lot 1
NYSDEC BCP Site No. C203106**

Prepared for:

**414 Gerard Owner LLC
c/o The Domain Companies
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Prepared by:

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LANGAN

**November 2021
Langan Project No. 170488401**

CERTIFICATIONS

I, Jason J. Hayes, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Remedial Action Work Plan (RAWP) was implemented and that all construction activities were completed in substantial conformance with the Department-approved RAWP.

I certify that the data submitted to the Department with this Final Engineering Report demonstrates that the remediation requirements set forth in the RAWP and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established for the remedy.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Jason Hayes, of Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan), am certifying as Owner's Designated Site Representative for the site.

089491-1

NYS Professional Engineer #

11/23/2021

Date



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LIST OF ACRONYMS

ACM	Asbestos-Containing Material
AST	Aboveground Storage Tank
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
Bgs	Below Ground Surface
CAMP	Community Air Monitoring Plan
C&D	Construction and Demolition
CFR	Code of Federal Regulations
CHASP	Construction Health and Safety Plan
COAP	Construction Quality Assurance Plan
CVOC	Chlorinated Volatile Organic Compound
DER	Division of Environmental Remediation
DUSR	Data Usability Summary Report
EE	Environmental Easement
EI.	Elevation
ELAP	Environmental Laboratory Approval Program
EPA	United States Environmental Protection Agency
EPH	Extractable Petroleum Hydrocarbons
eV	Electron Volt
FDNY	Fire Department of the City of New York
FER	Final Engineering Report
GC/CM	General Contractor/Construction Manager
HASP	Health and Safety Plan
IC	Institutional Control
µg/m ³	Micrograms per Cubic Meter
LBP	Lead-Based Paint
mg/kg	Milligrams per kilogram
NAVD88	North American Vertical Datum of 1988
NJDEP	New Jersey Department of Environmental Protection
NYCDEP	New York City Department of Environmental Protection
NYCDOB	New York City Department of Buildings
NYCDOT	New York City Department of Transportation
NYCRR	New York Codes, Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OER	New York City Office of Environmental Remediation
OSHA	United States Occupational Safety and Health Administration
PBS	Petroleum Bulk Storage

PCB	Polychlorinated Biphenyls
PFAS	Per- and Poly-fluoroalkyl Substances
PGW	Protection of Groundwater
PID	Photoionization Detector
PM10	Particulate Matter Smaller than 10 Micrometers in Diameter
PPE	Personal Protective Equipment
Ppm	Parts per Million
QAPP	Quality Assurance Protect Plan
QA/QC	Quality Assurance/Quality Control
QEP	Qualified Environmental Professional
RAO	Remedial Action Objective
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RE	Remedial Engineer
RI	Remedial Investigation
RIR	Remedial Investigation Report
RU	Restricted Use – Residential
RRU	Restricted Use – Restricted Residential
SCO	Soil Cleanup Objective
SDS	Safety Data Sheets
SMP	Site Management Plan
SMMP	Soil/Materials Management Plan
SOE	Support of Excavation
SVOC	Semivolatile Organic Compound
SWPPP	Stormwater Pollution Prevention Plan
TAL	Target Analyte List
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
UU	Unrestricted Use
UST	Underground Storage Tank
VOC	Volatile Organic Compound

1.0 BACKGROUND

125 East 144 Street Holdings LLC (the Original Applicant) executed a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) on March 26, 2018 to investigate and remediate the approximately 12,600-square-foot (\pm 0.29 acres) Former Rocket Jewelry Box site located at 414 Gerard Avenue in the Mott Haven neighborhood of Bronx, New York (the "site"). New York State Brownfield Cleanup Program (BCP) Site No. C203106 was assigned to the site by the NYSDEC. The following amendments were made to the BCA:

- On February 4, 2019, the BCA was amended to add the buyer entity, 414 Gerard LLC, to the BCA by the Volunteer (125 East 144 Street Holdings LLC).
- On December 16, 2020, the BCA was amended to add an additional party, 414 Gerard Owner LLC, as a Volunteer. 414 Gerard Owner LLC had taken title to the site; the existing applicant and Volunteer, 414 Gerard LLC, owns 100% of 414 Gerard Owner LLC.

A Decision Document (DD) was issued in November 2018 that included a Track 1 and Track 2 alternative. Because of a change in the design plan to incorporate shallower excavation, instead of an initially proposed deeper excavation to about 30 feet below grade surface (bgs), the Track 2 remedy outlined in the Remedial Action Work Plan (RAWP) was selected as the preferred remedy. This change was approved by the NYSDEC via email correspondence on May 5, 2020. The Track 2 remedy was implemented in accordance with the NYSDEC-approved December 7, 2018 RAWP and November 29, 2018 NYSDEC Decision Document. The NYSDEC approval letters for the RAWP and November 2018 Decision Document, including the May 5, 2020 email correspondence, are provided in Appendix A.

The site is bound by 444 Gerard Avenue followed by East 146th Street to the north; a three-story industrial-use building to the east; East 144th Street followed by a two-story industrial use building to the south; and Gerard Avenue followed by an active construction site (BCP Site #203011) to the west. A site location map is included as Figure 1 and a site layout plan is included as Figure 2. A site survey, which includes a metes and bounds site description, is included as Appendix B.

Prior to development, the site was developed with a vacant, one-story manufacturing building with a partial cellar level. Historical uses of the site include a diner (1935 to 1944) and most recently a jewelry box manufacturer (1954 to 2016). The building was demolished in January 2021 as part of site preparation.

The bulk of remediation occurred between May 5, 2021 and September 7, 2021; however, UST excavation, cleaning, and off-site disposal was completed on December 9, 2020 and January 12 and 19, 2021. All remediation was completed in accordance with the NYSDEC-approved RAWP.

The site is being redeveloped in conjunction with the northern adjoining lot (444 Gerard Avenue) into an 11-story mixed-use residential and commercial building with a full cellar level. The cellar level has a finished floor slab elevation ranging from between el. 12.5 and 20.66¹. Excavation for remediation ranged in depth from el. 17.5 in the southeastern part of the site to el. 8.5 in the southwestern part of the site (about 10 to 18.5 feet bgs).

This Final Engineering Report (FER) summarizes the remedial actions implemented at the site in accordance with the NYSDEC-approved RAWP, which detailed a Track 2 Residential Cleanup to address impacted soil and groundwater within the site boundaries.

¹ Elevations herein are in feet and referenced to the North American Vertical Datum of 1988 (NAVD88), which is about 1.1 feet above mean sea level at Sandy Hook, NJ.

2.0 SUMMARY OF SITE REMEDY

2.1 Remedial Action Objectives

Langan completed a Remedial Investigation (RI) between August 25 and September 18, 2017, which was approved by the NYSDEC and NYSDOH on June 4, 2018. The RI was completed to evaluate the nature and extent contamination in soil, groundwater, and soil vapor and assess risk to human health and the environment. Based on the results of the RI, the following Remedial Action Objectives (RAOs) were identified for this site.

2.1.1 Soil RAOs

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil
- Prevent inhalation of or exposure to contaminants volatilizing from contaminated soil contaminants in soil

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination

2.1.2 Groundwater RAOs

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards
- Prevent contact with or inhalation of volatiles from contaminated groundwater

RAOs for Environmental Protection

- Restore ground water aquifer to pre-disposal/pre-release conditions, to the extent practicable
- Remove the source of ground or surface water contamination

2.1.3 Soil Vapor RAOs

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing or potential soil vapor intrusion into buildings at the site

2.2 Description of the Selected Remedy

A Decision Document was issued in November 2018 that included a Track 1 and Track 2 alternative. Because of a change in the design plan to incorporate shallower excavation, instead of an initially proposed deeper excavation to about 30 feet bgs, the Track 2 remedy outlined in the RAWP was selected as the preferred remedy.

The factors considered during remedy selection are those listed in DER-10 and 6 NYCRR 375-1.8. Prior to and as a prerequisite to remedy implementation, abatement of hazardous building materials, including asbestos-containing material (ACM) and lead based paint (LBP), was completed from November 16 to December 10, 2020, and subsequent demolition of the site buildings occurred from January 22 to February 12, 2021. The following were the components of the remedy:

- Development and implementation of a Healthy and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) for the protection of on-site workers, the community, and the environment during the remediation phase of development
- Decommissioning and removal of one 3,000-gallon underground storage tank (UST), formerly identified as an aboveground storage tank (AST) - A revised Petroleum Bulk Storage (PBS) application was submitted to the NYSDEC to administratively close the tank.
- Construction of the support of excavation (SOE) system to facilitate the Track 2 remediation - The SOE system included soldier piles, lagging, and tiebacks along the western, southern, and northeastern site boundaries, and underpinning piers along the eastern site boundary beneath the eastern adjoining building.
- Implementation of soil erosion, pollution and sediment control measures, as necessary, in compliance with applicable laws and regulations
- Excavation and off-site disposal of about 10,260 cubic yards of soil/fill exceeding the Part 375 Restricted Use - Residential (RU) Soil Cleanup Objectives (SCOs) - General excavation was completed to depths ranging from about 10 to 18.5 feet bgs, corresponding to about el. 8.5 to 17.5.
- Collection and analysis of bottom confirmation soil samples to confirm RU SCOs were achieved
- Completion of a topographic survey of either the confirmation sample locations or final excavation sub-grade

- Installation of a vapor barrier/waterproofing membrane along the base and sidewalls of the excavation.

3.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

The remedy for this site was performed as a single project, and no interim remedial measures, operable units or separate construction contracts were performed. The bulk of remediation occurred between May 5, 2021 and September 7, 2021; however, UST excavation, cleaning, and offsite disposal was completed on December 9, 2020 and January 12 and 19, 2021. All remediation was completed in accordance with the NYSDEC-approved RAWP.

Deviations from the RAWP are noted in Section 3.11.

3.1 Governing Documents

3.1.1 Site Specific Construction Health and Safety Plan

Remedial work was performed in compliance with governmental requirements, including site and worker safety requirements mandated by the Occupational Safety and Health Administration (OSHA) and the site-specific CHASP. The CHASP provided a mechanism for establishing on-site safe working conditions, safety organization procedures, and personal protective equipment (PPE) requirements, and was followed during remedial work performed at the site. The site-specific CHASP met the requirements of the Code of Federal Regulations Title 29 Part 1910 (29 CFR 1910) and 29 CFR 1926 (which includes 29 CFR 1910.120 and 29 CFR 1926.65). The site-specific CHASP included, but was not limited to, the following components:

- Organization and identification of key personnel
- Training requirements
- Medical surveillance requirements
- List of site hazards
- Excavation safety
- Work zone descriptions
- PPE requirements
- Decontamination requirements
- Standard operating procedures
- Protective measure plan
- CAMP
- Safety Data Sheets (SDS)

3.1.2 Quality Assurance Project Plan (QAPP)

The NYSDEC-approved Quality Assurance Project Plan (QAPP) was included as Appendix F in the RAWP. The QAPP describes the specific policies, objectives, organization, functional activities and quality assurance/quality control (QA/QC) activities designed to achieve the project data quality objectives.

3.1.3 Construction Quality Assurance Plan

The Construction Quality Assurance Plan (CQAP) included in the RAWP provided a detailed description of the observation and testing activities used to monitor construction quality and confirm that remedial construction conformed to the remediation goals, objectives and specifications. The contractor and construction manager were responsible for construction quality as the remedy was completed. A list of engineering personnel involved in implementation of the CQAP and a description of the procedures carried out by the remedial engineering team are provided below.

The following project personnel were involved with the RAWP implementation:

Remedial Engineer (RE):	Jason Hayes, P.E., LEED ^{AP}
Project Manager:	Kimberly Semon, P.E.
Langan Health & Safety Officer:	Tony Moffa, ASP, CHMM, COSS
Site Safety Coordinator:	William Bohrer, P.G.
Qualified Environmental Professional (QEP):	Brian Gochenaur, QEP
Field Team Leader:	Lamees Esmail, E.I.T
Field Staff Members:	Caroline Grattan and Ali Reach
Quality Assurance Officer:	Michael Burke, P.G., CHMM

The RE directly supervised field staff who were on-site during the remedial action, including field screening of excavations, soil/fill excavation and removal, and CAMP implementation. The RE directly supervised field staff that met with the construction superintendent (affiliated with the Volunteer) on a daily basis to discuss the plans for that day and schedule upcoming activities. The RE reviewed site development activities to verify they did not interfere with, or otherwise impair or compromise, the remedial action. The field staff kept a project field book and a photo log documenting remedial activities. Daily reports summarizing remedial activities were submitted to NYSDEC and the NYSDOH and included CAMP results.

3.1.4 Soil/Materials Management Plan

The Soil/Materials Management Plan (SMMP) included in the RAWP provided detailed plans for managing soil and fill disturbed during implementation of the remedy, including excavation, handling, storage, transportation and disposal. It also included the controls that were applied to provide for effective, nuisance-limited performance of invasive remedial actions in compliance with applicable federal, state and local laws and regulations.

3.1.4.1 Soil Screening Methods

Visual, olfactory, photoionization detector (PID) soil screening and assessment was performed by field staff under the direct supervision of the RE during remedial excavations of known and potentially contaminated soil and fill. Soil screening included all excavation and invasive work performed during the remedy, including excavations for the SOE system and foundation. Instrumental soil screening was conducted with a MiniRAE® 3000 PID equipped with a 10.6 electron volt (eV) lamp.

3.1.4.2 Stockpile Methods

Soil stockpile areas were constructed for staging of excavated site soil/fill and construction and demolition (C&D) debris to facilitate the loading of trucks. Separate stockpile areas were constructed to avoid comingling of different waste types. Stockpile areas met the following minimum requirements:

- Stockpiles were covered at the end of each work day with minimum 6-mil plastic sheeting or tarps, which were securely anchored to the ground. Separate stockpiles were created for different waste types (e.g., soil/fill, C&D debris). Stockpiles were routinely inspected and broken sheeting covers promptly replaced.
- Stockpiles were covered upon reaching their capacity (i.e., about 1,000 cubic yards) until ready for loading.
- Stockpiles were encircled with silt fences and hay bales, as needed, to contain and filter particulates from rainwater and to mitigate the potential for surface water run-off.

3.1.4.3 Excavation and Load Out

Field staff under the direct supervision of the RE observed ground-intrusive work, and the excavation and load-out of excavated soil and fill. The Volunteer and its contractors were responsible for the safe execution of intrusive and other work performed during this remedial action, installation of SOE measures, and maintaining the structure of adjoining buildings during excavations. The presence of utilities and easements on the site were also investigated and verified by the Volunteer and its contractors before excavation was performed.

To the extent possible, trucks were queued along Gerard Avenue and East 144th Street prior to load out to minimize off-site disturbance. Off-site queuing was minimized to limit the number of trucks stopping and idling in the surrounding neighborhood. A construction entrance was temporarily constructed and utilized during truck load-out near the intersection of Gerard Avenue and East 144th Street. Trucks were loaded while on-site. Areas in the immediate vicinity of the truck loading lanes were inspected after trucking events for evidence of off-site sediment tracking. Soil and fill was routed to the appropriate disposal destination using trucking routes outlined in the approved RAWP.

Field staff under the direct supervision of the RE documented that egress points for truck and equipment transport from the site were clean of debris and soil/fill derived from the site during remediation and development. Cleaning of the adjacent streets was performed by the contractor as needed to maintain a clean condition with respect to site-derived soil, fill and sediment.

Loaded vehicles leaving the site were securely covered, manifested, and placarded in accordance with appropriate federal, state, and local requirements, and all other applicable transportation requirements. Trucks were not loaded with wet soil and fill capable of producing free liquid, eliminating the need for truck liners.

3.1.4.4 Disposal Off-Site

Soil, fill and liquids excavated and removed from the site was handled, transported and disposed of in accordance with local, state (including 6 NYCRR Part 360) and federal regulations. Non-hazardous historic fill removed from the site was handled as a solid waste per 6 NYCRR Part 360-1.2.

The following documentation was obtained and reported by the RE for each soil, fill and liquid disposal location used in this project to demonstrate and document that the disposal of soil, fill and liquid derived from the site conforms to applicable laws:

- A letter from the RE to the receiving facility describing the soil, fill and liquid to be disposed and requesting formal written acceptance. This letter stated that soil, fill and liquid to be disposed of is contaminated soil, fill and liquid generated at an environmental remediation site in New York State. The letter provided the project identity and the name and phone number of the RE. The letter included chemical data for the soil, fill and liquid being transported (including waste characterization data); and
- A letter from the receiving facility stating it is in receipt of the correspondence (above) and is approved to accept the soil, fill and liquid.

Waste disposal facility approval and permit documentation is provided in Appendix C.

An account of the destination of soil, fill and liquid removed from the site during the remedial

action was documented by the RE. Non-hazardous waste manifests were used for off-site movement of non-hazardous soil, fill and liquid, as discussed below in Section 3.3. A total of about 14,070 tons of non-hazardous historic fill and soil were excavated and transported off-site for disposal.

Preliminary waste characterization investigations were performed to facilitate approval of excavated soil and fill at off-site disposal facilities. Sampling and analytical methods, sampling frequency, and analytical results are summarized in Section 3.3.

3.1.4.5 Soil and Fill Reuse On-Site

No soil and fill was reused on site during the remedial activities.

3.1.4.6 Fluids Management

Dewatering of groundwater was not required for the construction of foundation elements or remedial excavation.

3.1.4.7 Backfill from Off-site Sources

About 519.30 tons of three-quarter (3/4)-inch virgin quarry stone was imported for placement as a subgrade layer above soil, to temporarily backfill the former UST area, and/or to construct and stabilize construction entrances. A concrete slab was placed on top of the imported granular aggregate per the development plan. A demarcation barrier installed prior to stone subgrade layer was not required per NYSDEC email correspondence dated July 14, 2021, included in Appendix A. Import stone used to backfill and grade the former UST excavation area and for construction entrances was excavated and transported for off-site disposal during RAWP implementation, as further discussed in Section 3.6. Imported stone facility approvals and permit documentation is included as Appendix D.

3.1.5 Stormwater Pollution Prevention Plan (SWPPP)

A SWPPP was not required because the site is less than one acre in size; however, erosion and sediment controls for remedial construction were performed in conformance with the New York State Guidelines for Urban Erosion and Sediment Control. Best Management Practices (BMP) for soil erosion were selected and implemented, as needed, to minimize erosion and sedimentation to off-site areas. Silt fencing and hay bales were utilized around the perimeter of the site, where required. The Remedial Contractors maintained sections of the stabilized construction entrances for stabilized vehicle transport and to avoid tracking sediment throughout the remediation area or off-site. Excavation grades were maintained to prevent discharge of site soil/fill off-site.

3.1.6 Community Air Monitoring Plan

Community air monitoring was conducted in compliance with the NYSDOH Generic CAMP outlined in Section 5.4.12 of the RAWP. The CAMP was developed to protect off-site receptors, including occupants at residences and businesses, from potential airborne contaminant releases during ground-intrusive work. Monitoring for dust and VOCs was conducted during ground-intrusive activities by RE field staff. The CAMP included real-time monitoring for VOCs and particulate matter smaller than ten microns in diameter (PM10) at the upwind and downwind perimeter of the site when ground intrusive remediation was underway. Continuous monitoring was implemented during soil/fill excavation and load-out, and earthwork associated with foundation construction. Air monitoring for particulates and VOCs was implemented on January 12 and 19, 2021, and from May 11, 2021 to August 20, 2021. Air monitoring for particulates and VOCs was implemented during all ground intrusive activities associated with the remedy.

Per correspondence with NYSDEC and NYSDOH, visual inspection for dust and/or odors was conducted in place of CAMP during load out of native soil on September 7, 2021. Correspondence is included in Appendix A.

Monitoring for VOCs was conducted with a MiniRAE® 3000 PID equipped with a 10.6 eV lamp and monitoring for PM10 was conducted with a TSI DustTrak™ II Model 8530. A portable PID was used to monitor the work zone. Field staff monitored ambient air conditions at the site perimeter to check for visible dust emissions and odors. Odors were not documented during the remediation and mitigation measures were implemented when visible dust was identified. Preventative measures for dust generation implemented by the contractor included wetting surficial soil and surrounding work areas.

Action levels used for the protection of the community and visitors were set forth in the CAMP. The particulate action level was set at 150 micrograms of dust per cubic meter ($\mu\text{g}/\text{m}^3$) of air above background for a 15-minute average, and the VOC action level was set at 25 parts per million (ppm) for instantaneous readings and above background or 5 ppm above background for a 15-minute average. DustTraks and PIDs were monitored each day during implementation of the RAWP. Fifteen-minute running averages were calculated from the data recorded and were compared to the action levels specified in the CAMP. CAMP results are discussed in further detail in Section 3.2.5.

3.1.7 Contractors Site Operations Plans

The RE reviewed all plans and submittals for this remedial project (i.e., those listed above plus contractor and subcontractor submittals) and confirmed that they were in compliance with the RAWP. All remedial documents were submitted to NYSDEC and NYSDOH in a timely manner and prior to the start of work.

3.1.8 Citizen Participation Plan

The approved Citizen Participation Plan for this project was included as RAWP Appendix D. A certification of mailing was sent by the Volunteer to the NYSDEC project manager following the distribution of the first fact sheet that included: (1) certification that the fact sheet was mailed; (2) the date it was mailed; (3) a copy of the fact sheet; (4) a list of recipients (contact list); and (5) a statement that the repositories contained all of the applicable project documents. Subsequent fact sheets were mailed to elected officials and were publicly noticed electronically by NYSDEC.

Two document repositories were established at the following locations and each contain all applicable project documents:

Bronx Community Board 1
Attn: George Rodriguez, Chair
3024 Third Avenue
Bronx, New York 10455
Phone: (718) 585-7117

New York Public Library – Mott Haven
321 East 140th Street
Bronx, New York 10454
Phone: (718) 665-4878

3.2 Remedial Program Elements

3.2.1 Contractors and Consultants

Contractor/Consultant	Company Name	Representative/Contact
RE	Langan	Jason Hayes, P.E. (212) 479-5400
General Contractor/Construction Manager (GC/CM)	The Vorea Group (Vorea)	Frank Bucko (718) 707 2884
Remediation Contractors	ECD NY Inc.	Gary Smith (718) 388 6705
AST/UST Decommissioning and Removal Contractor	AARCO Environmental Services, Inc. (AARCO)	Steve Plofker (631) 586-5900
Waste Disposal Manager	Clean Earth Inc. (CEI)	Karen Vivo Hartley (215) 734 1400

Vorea acted as the GC/CM on behalf of the Volunteer. Langan was retained as the RE and Mr. Jason Hayes, P.E. is the RE of Record and is certifying this FER. CEI was selected as the Waste Disposal Manager for non-hazardous soil/fill. The remediation contractors maintained staff and equipment to conduct remedial activities, and the Waste Disposal Manager was responsible for selecting soil disposal facilities based on waste characterization laboratory data and for providing

transportation for off-site soil disposal through waste hauling subcontractors.

ECD NY Inc. and its subcontractors maintained a full staff and complement of equipment to conduct the remedial activities outlined in the RAWP.

3.2.2 Site Preparation

The Volunteer and remediation contractors mobilized to the site and completed the following activities:

- Identified the location of the aboveground and underground utilities (e.g., power, gas, water, sewer, communications), equipment, and structures as necessary prior to implementation of the remedy
- Mobilized necessary remediation personnel, equipment and materials to the site
- Constructed temporary, stabilized construction entrances located in the southwestern part of the site, which included site-access ramps consisting of non-hazardous historic soil/fill from the site excavation and from imported stone
- Installed erosion and sediment control measures, as necessary
- Installed temporary construction fencing around the perimeter of the site, including locked gates to limit unauthorized access to the site
- Stationed a water hose at the site access/loading ramps for truck cleaning/washing
- Obtained agency and city approvals and regulatory permits, including, but not limited to:
 - New York City Department of Buildings (NYCDOB) work permits
 - New York City Department of Transportation (NYCDOT) roadway and walkway closure permits
 - New York State Department of Environmental Protection (NYCDEP) construction noise and dust mitigation permits
 - Fire Department of City of New York (FDNY) new construction permits

A pre-construction meeting was held with the Volunteer, NYSDEC, NYSDOH, RE, Vorea, CEI, and ECD NY Inc. on March 4, 2021 to review the RAWP prior to implementation.

3.2.3 General Site Controls

3.2.3.1 Site Security

The site perimeter was secured with gated, signed, plywood fencing with points of entry in accordance with NYCDOB and NYCDOT permits and requirements. The purpose of the fencing was to limit site access to authorized personnel, protect pedestrians from site activities, and

maintain site security. A site security officer was on-site during non-working hours throughout the course of RAWP implementation.

3.2.3.2 Job Site Record Keeping

Field observations and measurements were recorded in a project field book, spreadsheets, sketches/maps and field photographs. Daily field reports and monthly reports summarizing remediation activity and progress were submitted to the NYSDEC project managers. Daily and monthly reports are further discussed in Section 3.2.6.

3.2.3.3 Equipment Decontamination and Residual Waste Management

The contractors were responsible for managing the disposal of residual waste, including scrap construction materials (wood, plastics, and metal), asbestos and lead-impacted building materials, C&D debris, and general refuse/municipal solid waste. Machinery, equipment and materials were decontaminated before removal from the site, as necessary. Special decontamination areas were not required during the remedy based on the nature of on-site contamination.

3.2.3.4 Problems Encountered

There were no problems encountered during implementation of the remedy.

3.2.4 Nuisance Controls

3.2.4.1 Dust Control

The contractor employed dust suppression techniques while excavating, drilling, cutting, grading, stockpiling, and during other construction activities. The contractor applied water to work zones and excavation areas and covered stockpiles with polyethylene sheeting, as needed, to minimize releases of airborne particulates.

3.2.4.2 Odor Control

Odor control techniques were not required during implementation of the RAWP.

3.2.4.3 Responding to Complaints

Community complaints related to remedial activities were not received by the RE.

3.2.5 CAMP Results

A summary of VOC and/or PM10 exceedances are provided in Table 1. Reasons for exceedances primarily included housekeeping, welding, pile driving, and excavation/trucking. During periods

of exceedances, Langan personnel under the supervision of the RE directed the contractor to pause work and mitigate dust until subsequent readings declined below action levels. Intermittent VOC and/or PM10 data at the upwind and/or downwind CAMP stations was not recorded on 20 days due to equipment and/or telemetry system malfunction. On these days, the units were recalibrated or, in some instances, replaced by the equipment subcontractor. Dusts and odors were not observed migrating off-site on these days.

Daily CAMP field data summary sheets and air monitoring data are provided as Appendix E.

3.2.6 Reporting

Langan field staff, under the supervision of the RE, documented remedial activities, including waste characterization sampling; excavation/earthwork; confirmation endpoint sampling; community air monitoring results; stockpile management; and soil, fill, stone and liquid import and export, in daily field reports with photographs. The Project Manager or Field Team Leader submitted daily reports to the NYSDEC project manager for phases of earthwork and remediation activities.

The Project Manager or Field Team Leader submitted monthly reports to the NYSDEC Project Manager by the tenth day of the month following the previous reporting period between September 2019 and September 2021. Monthly reports included a summary of remedial activities during the reporting period and anticipated activities, field sampling results, and other information related to the remedy. Daily and monthly reports during the remedial action period are included in electronic format in Appendix F.

A digital photograph log documenting key phases and activities accomplished during the remedy is included in Appendix G.

3.3 Contaminated Soil and Fill Removal

Remedial excavation to achieve Track 2 RU SCOs consisted of the removal of non-hazardous historic fill and soil to depths between about 10 to 18.5 feet bgs (corresponding to about el. 8.5 to el. 17.5). The Track 2 SCOs are provided as Table 2. One UST, formerly identified as an AST, was decommissioned and removed from the site during RAWP implementation. A site excavation map is provided as Figure 3 and includes the former UST location.

3.3.1 Waste Characterization

Waste characterization sampling was performed August 28 through September 1, 2017. The waste characterization included collection of grab samples for Part 375/Total Compound List (TCL)/New Jersey Department of Environmental Protection (NJDEP) VOC by United States Environmental Protection Agency (EPA) Method 8260C and NJDEP extractable petroleum

hydrocarbons (EPH) by EPA method 103/3546. Composite samples were analyzed for Toxicity Characteristic Leaching Procedure (TCLP) VOCs via EPA method 1311, Part 375/TCL/NJDEP SVOCs by EPA Method 8270D, Part 375/TCL herbicides/pesticides by EPA Method 8151A/8081B, Part 375/Total Analyte List (TAL) metals, including hexavalent/trivalent chromium, by EPA Method 6010D/7470A, total cyanide by EPA Method 9010C/9012B, PCBs by EPA Method 8082A, TCLP SVOCs, pesticides, herbicides, and metals by EPA method 1311, Resource Conservation and Recovery Act (RCRA) Characteristics including pH, ignitability, cyanide and sulfide reactivity, and paint filter by EPA Method 9095B. Samples were compared to the lower of the NYSDEC Part 375 RU and Protection of Groundwater (PGW) SCOs.

The waste characterization figures and analytical data is included in Appendix H.

3.3.2 Underground Storage Tank

On December 9, 2020, AARCO, a Fire Department of New York (FDNY)-certified tank removal contractor, decommissioned and removed a 3,000-gallon UST, previously incorrectly listed on the NYSDEC PBS registration as a vaulted AST, that was identified in the southeastern part of the site. The approximate location of the former UST is shown on Figure 3. The UST was decommissioned in accordance with New York City Fire Code, Chapter 34, Section FC3404, Title 6 of the NYCRR, Section 613.9, and NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation Section 5.5.

Prior to decommissioning the UST, AARCO removed an about 10-foot-wide, 16-foot long, 6-inch-thick concrete slab within the UST area. Historic fill and soil in contact with the UST was screened for odors, staining and organic vapors using a PID; evidence of impacts were not observed. About 100 gallons of No. 2 fuel oil mixed with water and rinsate were removed from the UST via a vacuum truck and transported to the Clean Water of New York Inc. facility located in Staten Island, New York, for off-site disposal. Oil adsorbent granules used to soak remaining liquid in the UST, sludge, and solid waste removed from the UST were containerized in a 55-gallon drum and was transported to the Conestoga Landfill located in Morgantown, Pennsylvania on January 12, 2021. The decommissioned and cleaned UST was transported to the Sims Metals Management facility located in the Bronx, New York, for off-site disposal as scrap metal.

One load, about 20.33 cubic yards (CY) of 3/4-inch stone was imported to the site from New York Sand and Stone – Eastern Concrete Material’s Wantage Quarry located in Wantage, New Jersey, to backfill the former UST area. The imported stone was subsequently removed during RAWP implementation.

The NYSDEC was notified that no other tanks were discovered at the site. A request was submitted to the NYSDEC PBS Division to update the status of the PBS listing (No. 2-207209).

UST registration and closure documentation, including tank removal affidavits, disposal manifests, and PBS database information, is provided in Appendix I.

3.3.3 Total Quantities Removed

The following table provides a summary of excavated soil and fill removed during RAWP implementation:

Disposal Facility	Type	Disposal Timeframe	Number of Loads	Weight (tons)	Volume (CY)*
Clean Earth of Carteret (CEC) 24 Middlesex Avenue Carteret, New Jersey	Non-hazardous historic fill and native soil	May 12 to May 13, 2021	22	615.92	439.94
Clean Earth - Bethlehem (CEB) 3000 Commerce Center Blvd Bethlehem, Pennsylvania		May 18 to September 10, 2021	491	13,451.59	9,608.27

* = Volume estimated by dividing the weight (tons) by 1.4.

Table 3 provides a ledger of the non-hazardous fill and soil disposal. Approval documentation from CEC and CEB and a copy of their respective facility permits are provided in Appendix C. Copies of facility-signed manifests and scale tickets and transporter Part 364 permits are included in electronic format in Appendix J.

3.4 Confirmation Endpoint Sampling

3.4.1 Confirmation Endpoint Soil Sampling Results

Post-excavation confirmation soil samples were collected at a frequency of about one base excavation sample for every 900 square feet, in accordance with the RAWP and NYSDEC DER-10. Sidewall samples were not collected from the excavation perimeter because SOE measures (e.g., sheeting, lagging walls, underpinning piers) precluded collection of sidewall samples. Twenty excavation bottom samples (EP01 through EP20) and one QA/QC sample were collected between July 22, 2021 and August 13, 2021. Samples were submitted to York Analytical Laboratories Inc. (York), a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified laboratory (ELAP ID #10854) and analyzed for NYSDEC Part 375 list VOCs, SVOCs, PCBs, pesticides, metals, including cyanide and hexavalent/trivalent chromium, per- and poly-fluoroalkyl substances (PFAS), and 1,4-dioxane in accordance with the RAWP and QAPP. Analytical results indicate that samples meet Track 2 RU SCOs site-wide.

The laboratory analytical results of the confirmation sampling and confirmation soil sample locations are presented in Table 4 and on Figure 4, respectively. Laboratory reports are provided

in Appendix K.

3.5 Data Usability Summary Report

Data Usability Summary Reports (DUSR) were prepared for confirmation soil samples and their related QA/QC samples. Table 5 summarizes QA/QC sample analytical results (i.e., field blanks, trip blanks). The data usability review confirmed that the data presented in these reports is of an appropriate quality for its intended usage. DUSRs are included as Appendix L.

3.6 Imported Stone

The following table provides a summary of NYSDEC-approved stone imported during RAWP implementation:

Type	Number of Loads	Quantity Imported (tons)	Import Timeframe	Facility
3/4-Inch Stone	1	20.23	January 19, 2021	New York Sand and Stone - Eastern Concrete Wantage Quarry Wantage, New Jersey
	20	499.07	July 29, 2021 to September 10, 2021	Tilcon – Mt. Hope Quarry, Wharton, New Jersey

The 3/4-inch stone imported from the New York Sand and Stone – Eastern Concrete Material’s Wantage Quarry was used to backfill and grade the former UST excavation area, and was subsequently excavated and disposed of off-site during RAWP implementation.

Table 6 summarizes the quantities, dates of import, and sources of the imported stone. Copies of tickets for the imported stone, source facility information, and product specifications are included in Appendix M.

3.7 Contamination Remaining at the Site

3.7.1 Soil

Per the RAWP and NYSDEC DER policy, documentation soil sample collection was completed and the Track 2 RU SCOs were achieved. As such, the site does not require engineering or institutional controls, an environmental easement, or a Site Management Plan; however, the following constituents were detected below 15 feet during the RI in soil samples and remain in place:

- Seven SVOCs, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene, exceeded UU and/or RRU SCOs in two samples collected between 22 and 27 feet bgs

(el. 9.5 and -0.5).

- One pesticide, 4, 4'-DDT, exceeded the UU SCO in two soil samples collected between 22 and 24 feet bgs (el. 9.5 and 7.5).
- Metals including cadmium, trivalent chromium, copper, lead, nickel, mercury, and zinc exceeded UU and/or RRU SCOs in nine samples collected from between 16 and 28 feet bgs (el.13.5 and -4.5).

The RI sample analytical results are discussed in the May 29, 2018 RIR.

3.7.2 Groundwater

Five samples (including one QA/QC sample) were collected from four wells during the RI. The groundwater samples were compared to the NYSDEC 6 NYCRR Part 703 and Technical Operational and Guidance Series (TOGS) Ambient Water Quality Standards and Guidance Values (SGVs) for VOCs SVOCs, PCBs, pesticides, total and dissolved metals, and NYSDEC Guidance Values for 1,4-dioxane and PFAS, and were analyzed by an NYSDOH ELAP-certified laboratory. The following constituents were detected in RI groundwater samples at concentrations exceeding the SGVs:

- One VOC, chloroform, exceeded TOGS SGVs in one groundwater sample collected from monitoring well OW1. The presence of chloroform may be related to historical site use or historical use of the eastern-adjointing property
- Two SVOCs, benzo(a)anthracene and benzo(b)fluoranthene, exceeded their respective TOGS SGVs in one groundwater sample collected from OW1. The presence of SVOCs in groundwater is attributed to entrained sediments associated with the presence of historic fill.
- Metals, including iron, magnesium, manganese, and sodium, were present above their respective TOGS SGVs. The presence of these metals is attributed to regional groundwater quality and is not considered indicative of a release.

There is currently no access to site groundwater as the building footprint covers the entire site and New York City does not permit the use of groundwater as a potable water source.

3.7.3 Soil Vapor

Tetrachloroethene (PCE) was detected at concentrations ranging from 9.9 to 93.6 $\mu\text{g}/\text{m}^3$ during the RI; however, PCE was not identified in soil or groundwater. Additionally, a source of PCE was not identified during site excavation. PCE identified in soil vapor during the RI may have been related to a release associated with historical site use or an off-site source. Petroleum-

related VOCs identified in soil vapor may have been associated with former petroleum bulk storage at the site or an off-site source.

As part of the RAWP implementation, the former UST was decommissioned and historic fill/soil was excavated to depths ranging from 10 to 18.5 feet bgs. Additionally, a vapor barrier/waterproofing membrane was installed beneath the 24- to 36-inch-thick concrete slab.

3.8 Engineering and Institutional Controls

Per the RAWP and NYSDEC DER policy, documentation soil sample collection was completed and the Track 2 RU SCOs were achieved. As such, the site does not require engineering or institutional controls, an environmental easement, or a Site Management Plan.

3.9 Soil Vapor Intrusion Evaluation

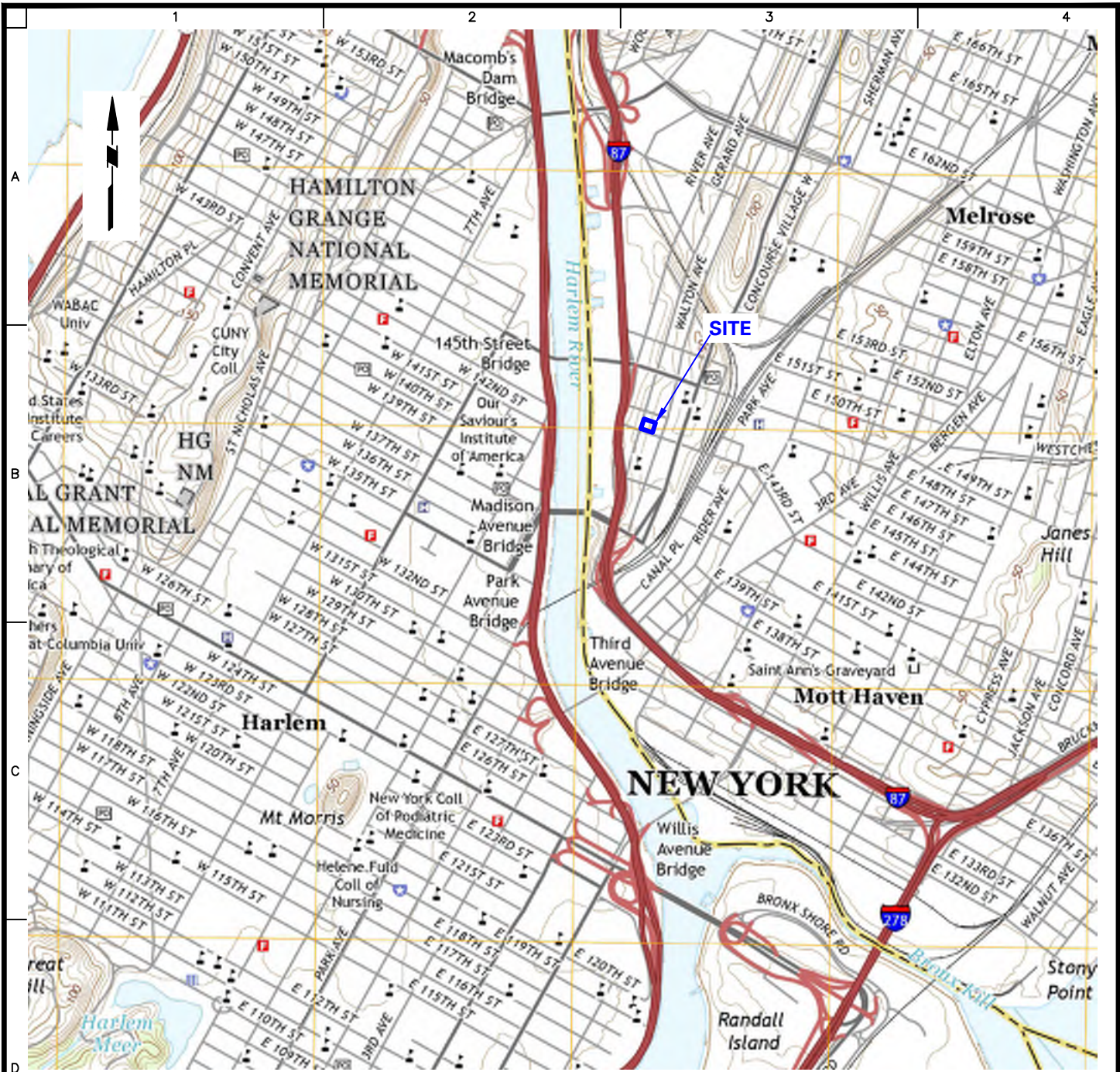
PCE was detected at concentrations ranging from 9.9 to 93.6 $\mu\text{g}/\text{m}^3$ during the RI; however, PCE was not identified in soil or groundwater. Additionally, no source of PCE was identified during site excavation. PCE in soil vapor was likely related to an off-site source. Petroleum-related VOCs identified in soil vapor may be associated with the former UST, which was removed as part of the RAWP implementation, or an off-site source.

Historic fill/soil was excavated to depths ranging from 10 to 18.5 feet bgs and RU SCOs were achieved, indicating that the site is acceptable for residential use with no engineering controls. PCE was not detected in any endpoint samples collected from across the site. Construction included installation of a vapor barrier/waterproofing membrane and a 24- to 36-inch-thick reinforced concrete slab that spans the entire building footprint. The vapor barrier/waterproofing membrane and concrete slab provide protection against potential for soil vapor intrusion from off-site sources. The cellar is used for parking and utility, storage and mechanical rooms, and will be ventilated in accordance with New York City Mechanical Code requirements. The operation of this ventilation system will prevent accumulation of potential soil vapor in the parking area, and further prevent migration of soil vapor into the occupied above-grade spaces of the building..

3.10 Deviation from the Remedial Action Work Plan

No deviations from the RAWP occurred during the remedial action timeframe.

FIGURES



— APPROXIMATE SITE BOUNDARY

NOTE: BASE MAP IS REFERENCED FROM THE UNITED STATES GEOLOGICAL SURVEY (USGS) 7.5 MINUTE SERIES CENTRAL PARK QUADRANGLE MAP, DATED 2016

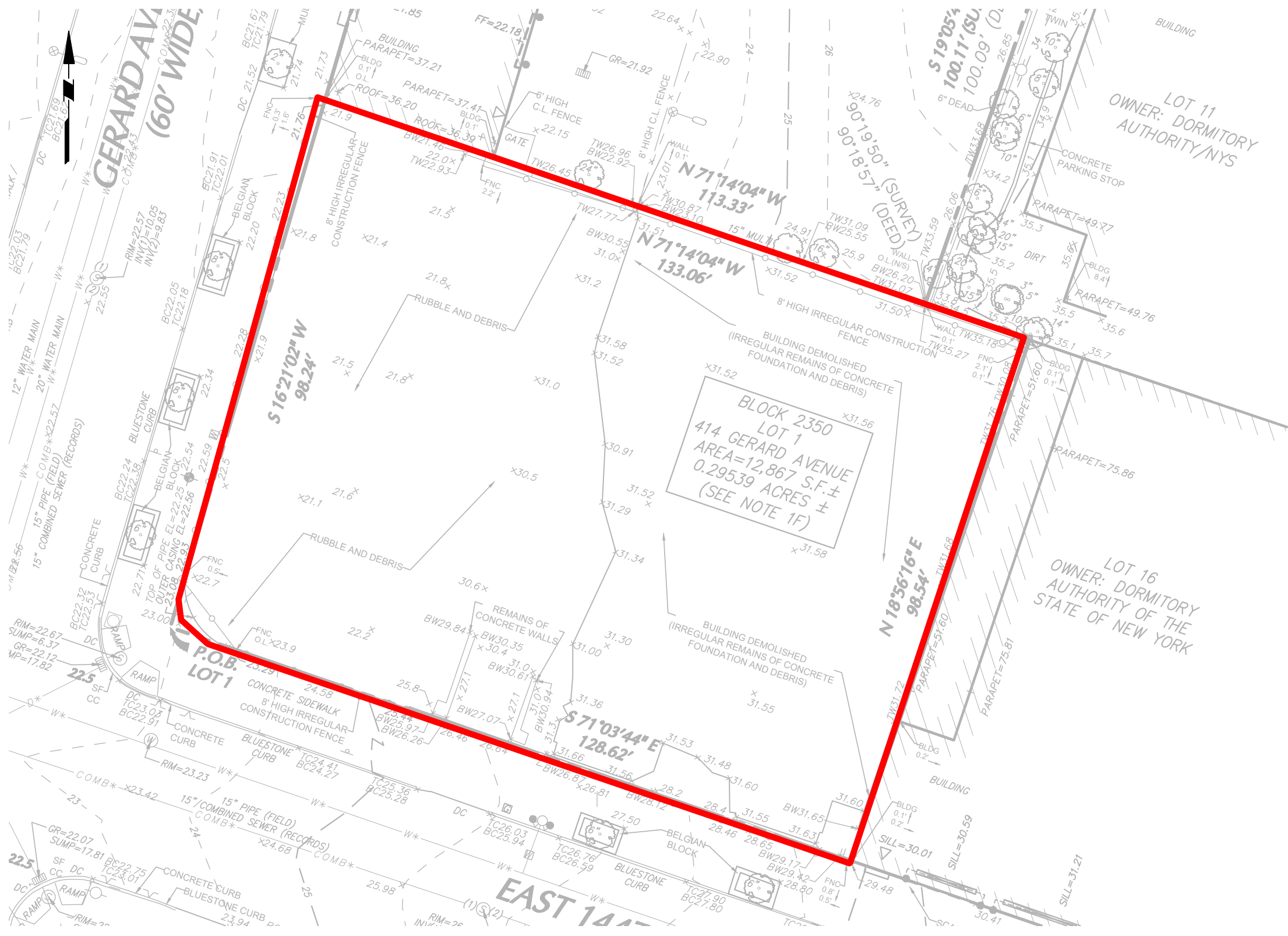
LANGAN
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 Langan Engineering, Environmental, Surveying and
 Landscape Architecture, D.P.C.
 Langan Engineering and Environmental Services, Inc.
 Langan CT, Inc.
 Langan International LLC
 Collectively known as Langan

Project
414 GERARD AVENUE
 BLOCK No. 2350 Lot 1
 BRONX NEW YORK

Figure Title
**SITE LOCATION
 MAP**

Project No.
 170488401
 Date
 08/28/2017
 Scale
 N.T.S
 Drawn By
 ALS
 Checked By
 MLR
 Submission Date

Figure No.
1

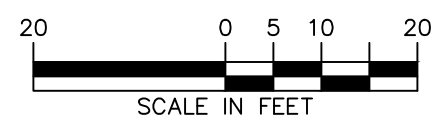


LEGEND:

— APPROXIMATE SITE BOUNDARY

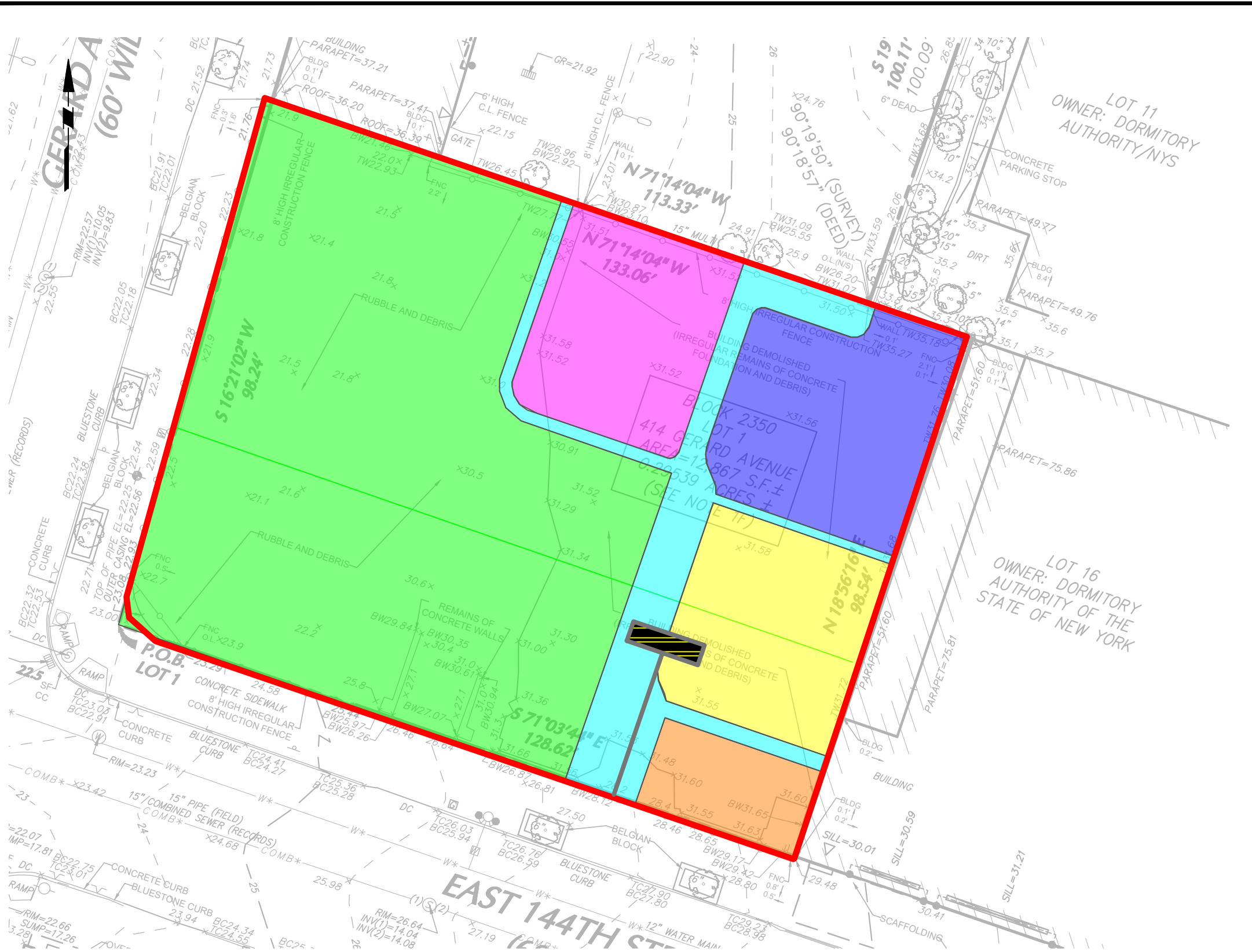
NOTES:

1. THE BASE MAP IS REFERENCED FROM THE SURVEY PREPARED BY LANGAN DATED DECEMBER 2, 2019.
2. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).



WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

LANGAN Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com	Project 414 GERARD AVENUE BLOCK No. 2350, Lot No. 1	Drawing Title SITE LAYOUT PLAN	Project No. 170488401	Figure No. 2
	Project BRONX	Drawing Title NEW YORK	Date 8/25/2021	Drawn By BK



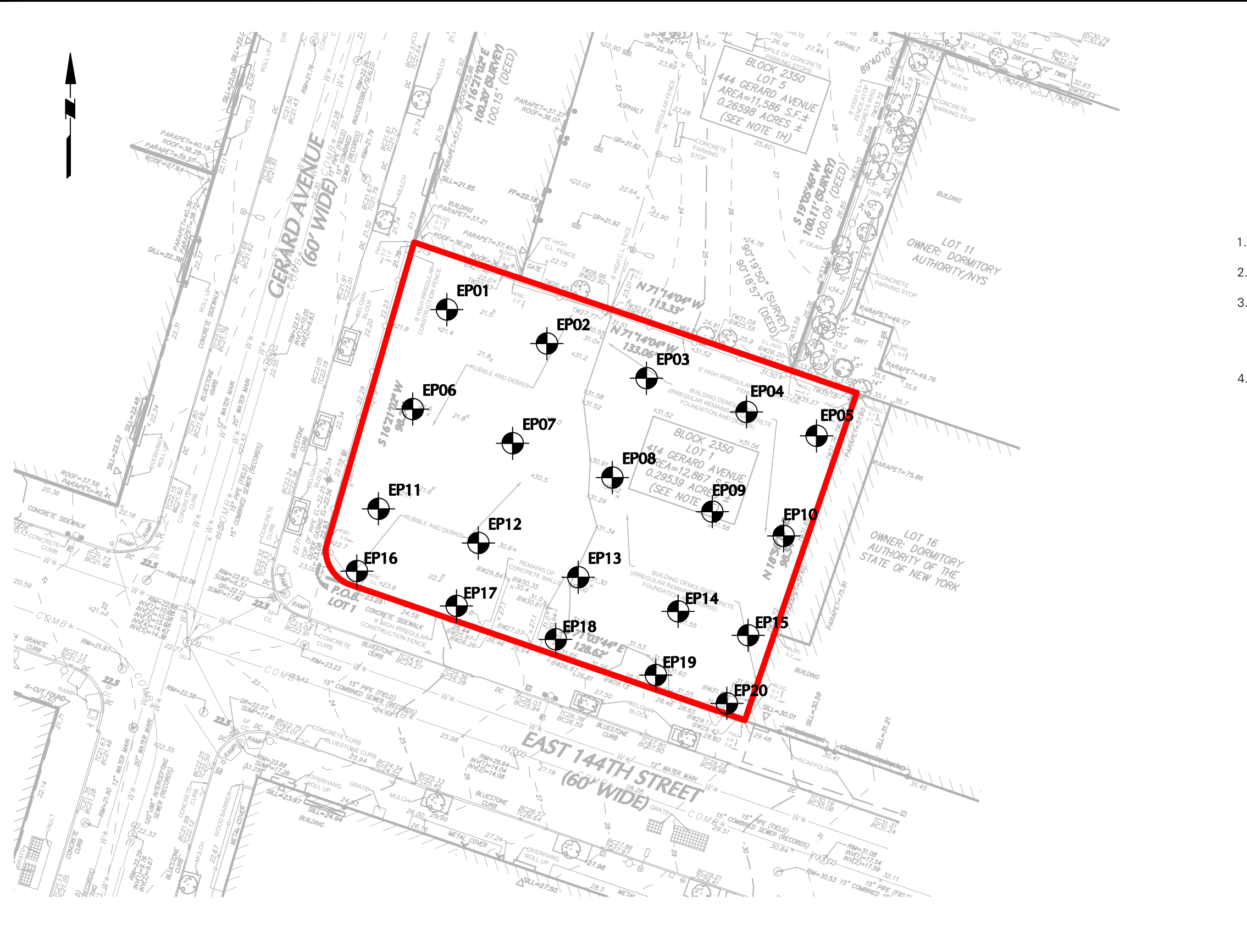
- LEGEND:**
- APPROXIMATE SITE BOUNDARY
 - APPROXIMATE EXTENT OF EXCAVATION TO ABOUT EL. 8.5
 - APPROXIMATE EXTENT OF EXCAVATION TO ABOUT EL 9.8
 - APPROXIMATE EXTENT OF EXCAVATION TO ABOUT EL 13
 - APPROXIMATE EXTENT OF EXCAVATION TO ABOUT EL 14.5
 - APPROXIMATE EXTENT OF EXCAVATION TO ABOUT EL 17.5
 - APPROXIMATE EXTENT OF EXCAVATION OF 2:1 SLOPE
 - APPROXIMATE LOCATION OF FORMER UST

- NOTES:**
1. THE BASE MAP IS REFERENCED FROM THE SURVEY PREPARED BY LANGAN DATED DECEMBER 2, 2019.
 2. UST = UNDERGROUND STORAGE TANK
 3. EL = ELEVATION
 4. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

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	<p>NEW YORK</p>	<p>Date 8/25/2021</p>	<p>Drawn By BK</p>	<p>Checked By LE</p>



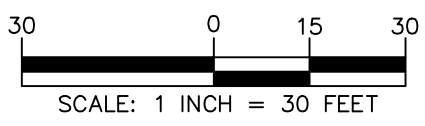
LEGEND:

— APPROXIMATE SITE BOUNDARY

⊙ APPROXIMATE ENDPOINT SAMPLE LOCATION

- NOTES:**
1. THE BASE MAP IS REFERENCED FROM THE SURVEY PREPARED BY LANGAN DATED DECEMBER 2, 2019.
 2. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 3. CONFIRMATION SAMPLES WERE COMPARED TO 6 NEW YORK CODES, RULES, AND REGULATIONS (NYCRR) PART 375 UNRESTRICTED USE (UU) AND RESTRICTED USE (RURR) SOIL CLEANUP OBJECTIVES (SCOS)
 4. ALL CONFIRMATION SAMPLES COLLECTED ACHIEVED THE RURR SCOS. 10 CONFIRMATION SAMPLES EXCEEDED THE UU SCOS FOR VARIOUS METALS, INCLUDING SELENIUM, HEXAVALENT AND TRIVALENT CHROMIUM.

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.



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	<p>BRONX NEW YORK</p>	<p>Date 08/25/2021</p>	<p>Drawn By BK</p>	

TABLES

**Table 1
Community Air Monitoring Program Exceedance Summary**

**414 Gerard Avenue
Bronx New York
BCP Site No.: C203106
Langan Project No.: 170488401**

Date	Time	Type (VOC or PM)	Reason	Actions
5/12/2021	15:25-15:46	PM	Excavation	Work was paused and the contractor sprayed the area with water to mitigate dust. Subsequent readings declined below the action level.
5/15/2021	14:18 - 14:22	PM	Excavation	Work was paused and the contractor sprayed the area with water to mitigate dust. Subsequent readings declined below the action level.
5/17/2021	12:28 - 12:39; 12:51 - 13:01	PM	Pile driving activities; Equipment knocked into station	Work was paused and the contractor sprayed the area with water to mitigate dust. Subsequent readings declined below the action level.
5/20/2021	8:00 - 8:12; 16:18 - 16:21	PM	Pile driving activities	Work was paused and the contractor sprayed the area with water to mitigate dust. Subsequent readings declined below the action level.
5/21/2021	7:58 - 8:10	PM	Sweeping/housekeeping activities	Particulate readings declined below action levels once cleaning activities were over.
5/26/2021	1:37-1:45; 15:15-15:39	PM	Concrete activity; welding	Welding activity was relocated away from the CAMP station.
5/27/2021	11:27-11:28; 12:28-12:42	PM	Excavation/trucking	Work was paused and the contractor sprayed the area with water to mitigate dust. Subsequent readings declined below the action level.
5/28/2021	7:58-8:12	PM	Unloading of 3-5-inch stone from truck	Upon notification of the exceedance, work was paused and the stockpiled stone was sprayed with water to mitigate future dust during placement for the track pad. Subsequent readings declined below the action level.
6/12/2021	11:11-11:16; 11:42-11:43	PM	Housekeeping activities	Particulate readings declined below action levels once cleaning activities were over.
6/14/2021	11:33-11:35	PM	Welding activities	Welding activity was relocated away from the CAMP station.
6/17/2021	14:55-15:04	PM	Grading activities	Work was paused and the contractor sprayed the area with water to mitigate dust. Subsequent readings declined below the action level.
6/18/2021	8:25-8:41	PM	Excavation	Work was paused and the contractor sprayed the area with water to mitigate dust. Subsequent readings declined below the action level.
6/23/2021	8:26-9:02; 9:13-9:27	PM	System restart; generator near downwind station	Technician resolved system issue; generator was re-located and subsequent readings declined below action levels.
7/12/2021	12:29-12:54	PM	Housekeeping activities	Particulate readings declined below action levels once cleaning activities were over.
7/14/2021	12:52-13:15;13:49-16:22	PM	Housekeeping activities	Particulate readings declined below action levels once cleaning activities were over.
7/15/2021	8:06-8:18	PM	Housekeeping activities	Particulate readings declined below action levels once cleaning activities were over.
7/17/2021	9:06-9:17	PM	Housekeeping activities	Particulate readings declined below action levels once cleaning activities were over.
7/27/2021	7:39-7:44	PM	Housekeeping activities	Particulate readings declined below action levels once cleaning activities were over.

Notes:

CAMP = Community Air Monitoring Program

VOC = Volatile organic compound

PM = Particulate matter less than 10 microns in diameter

**Table 2
Track 2 Soil Cleanup Objectives**

**414 Gerard Avenue
Bronx, New York
BCP Site No. C203106
Langan Project Number. 170488401**

VOCS (mg/kg)	
1,1,1-Trichloroethane	100
1,1-Dichloroethane	19
1,1-Dichloroethene	100
1,2,4-Trimethylbenzene	47
1,2-Dichlorobenzene	100
1,2-Dichloroethane	2.3
1,3,5-Trimethylbenzene (Mesitylene)	47
1,3-Dichlorobenzene	17
1,4-Dichlorobenzene	9.8
1,4-Dioxane (P-Dioxane)	9.8
Acetone	100
Benzene	2.9
Carbon Tetrachloride	1.4
Chlorobenzene	100
Chloroform	10
Cis-1,2-Dichloroethene	59
Ethylbenzene	30
Methyl Ethyl Ketone (2-Butanone)	100
Methylene Chloride	51
Naphthalene	100
n-Butylbenzene	12
n-Propylbenzene	100
Sec-Butylbenzene	100
T-Butylbenzene	100
Tert-Butyl Methyl Ether	62
Tetrachloroethene (PCE)	5.5
Toluene	100
Total Xylenes	100
Trans-1,2-Dichloroethene	100
Trichloroethene (TCE)	10
Vinyl Chloride	0.21
SVOCS (mg/kg)	
1,2-Dichlorobenzene	100
1,3-Dichlorobenzene	17
1,4-Dichlorobenzene	9.8
1,4-Dioxane (P-Dioxane)	9.8
2-Methylphenol (o-Cresol)	100
Acenaphthene	100
Acenaphthylene	100
Anthracene	100
Benzo(a)Anthracene	1
Benzo(a)Pyrene	1
Benzo(b)Fluoranthene	1
Benzo(g,h,i)Perylene	100
Benzo(k)Fluoranthene	1
Chrysene	1
Dibenz(a,h)Anthracene	0.33
Dibenzofuran	14
Fluoranthene	100
Fluorene	100
Hexachlorobenzene	0.33
Indeno(1,2,3-c,d)Pyrene	0.5
Naphthalene	100
Pentachlorophenol	2.4
Phenanthrene	100
Phenol	100
Pyrene	100

Pesticides (mg/kg)	
4,4'-DDD	2.6
4,4'-DDE	1.8
4,4'-DDT	1.7
Aldrin	0.019
Alpha BHC (Alpha Hexachlorocyclohexane)	0.097
Alpha Chlordane	0.91
Alpha Endosulfan	4.8
Beta Bhc (Beta Hexachlorocyclohexane)	0.072
Beta Endosulfan	4.8
Delta Bhc (Delta Hexachlorocyclohexane)	100
Dieldrin	0.039
Endosulfan Sulfate	4.8
Endrin	2.2
Gamma Bhc (Lindane)	0.28
Heptachlor	0.72
Herbicides (mg/kg)	
Silvex (2,4,5-Tp)	58
Polychlorinated Biphenyls (mg/kg)	
Total PCBs	1
Inorganics (mg/kg)	
Arsenic	16
Barium	350
Beryllium	14
Cadmium	2.5
Chromium, Hexavalent	22
Chromium, Trivalent	36
Copper	270
Cyanide	27
Lead	400
Manganese	2,000
Mercury	0.81
Nickel	140
Selenium	36
Silver	36
Zinc	2,200

Notes:

1. SCO = Soil Cleanup Objective
2. SVOC = semivolatile organic compound
3. VOC = volatile organic compound
4. PCB = polychlorinated biphenyl
5. mg/kg = milligram per kilogram
6. SCO values are Restricted Use - Residential Soil Cleanup Objectives

Table 3
Soil Disposal Summary

414 Gerard Avenue
Bronx, New York
BCP Site No. C203106
Langan Project Number. 170488401

Disposal Facility	513 Loads	10,260 cubic yards (CY)	Waste Type	Loads	Tons	Contractor:
Clean Earth of Cateret (CEC)	22 Loads	440 CY	Non-Hazardous Historic Fill	22	615.92	Soil Broker: N/A
Clean Earth of Bethlehem (BE)	491 Loads	9,820 CY	Non-Hazardous Historic Fill	491	13,451.59	Job #: 170488401
					14,067.51 Tons (Total)	

Transporter Info							Waste Tracking						Disposal Facility Info	
Total Load Count	Daily Load Count	Date	State	License	Truck Company	Truck #	Manifest #	Grid Location	Waste Type	Disposal Facility	Quantity (cy)	Estimated Weight (tons)	Confirmed Weight (tons)	Counter-signed?
1	1	5/12/2021		AW560L	D&A	8	2403125	WC04	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	25.22	Yes
2	2	5/12/2021	NJ	AW858D	D&A	343	2403121	WC03	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	25.82	Yes
3	3	5/12/2021	NJ	AS462U	D&A	11	2403122	WC03	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	26.62	Yes
4	4	5/12/2021	NJ	AU436J	D&A	36	2403124	WC04	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	30.44	Yes
5	5	5/12/2021	NJ	AU873D	D&A	27	2403123	WC04	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	26.88	Yes
6	6	5/12/2021	NJ	AW560L	D&A	8	2403128	WC03	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	25.91	Yes
7	7	5/12/2021	NJ	AW858D	D&A	343	2403127	WC03	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	28.81	Yes
8	8	5/12/2021	NJ	AU436J	D&A	36	2403126	WC03	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	29.58	Yes
9	9	5/12/2021	NJ	AS462U	D&A	11	2403130	WC04	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	28.32	Yes
10	10	5/12/2021	NJ	AU873D	D&A	27	2403129	WC04	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	27.64	Yes
11	11	5/12/2021	NJ	AW858D	D&A	343	2403134	WC03	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	29.86	Yes
12	12	5/12/2021	NJ	AU739H	D&A	30	2403133	WC03	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	28.38	Yes
13	13	5/12/2021	NJ	AU436J	D&A	36	2403132	WC03	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	30.67	Yes
14	14	5/12/2021	NJ	AS462U	D&A	11	2403135	WC04	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	29.60	Yes
15	15	5/12/2021	NJ	AU873D	D&A	27	2403131	WC04	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	28.39	Yes
16	1	5/13/2021	NJ	AW525Y	D&A	45	2403139	WC04	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	28.10	Yes
17	2	5/13/2021	NJ	AU521N	D&A	37	2403138	WC04	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	29.06	Yes
18	3	5/13/2021	NJ	AU273U	D&A	42	2403137	WC04	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	30.25	Yes
19	4	5/13/2021	NJ	AW920X	D&A	60	2403136	WC04	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	26.91	Yes
20	5	5/13/2021	NJ	AW859D	D&A	4	2403140	WC04	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	26.53	Yes
21	6	5/13/2021	NJ	AW919X	D&A	59	2403141	WC03	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	25.19	Yes
22	7	5/13/2021	NJ	AW525Y	D&A	45	2403142	WC03	Non-Hazardous Historic Fill	Clean Earth of Cateret	20	30	27.74	Yes
23	1	5/18/2021	NJ	AW711R	D&A	55	2292444	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.41	Yes
24	2	5/18/2021	NJ	AU436J	D&A	36	2292443	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.34	Yes
25	3	5/18/2021	NJ	AW918X	D&A	58	2292442	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.31	Yes
26	4	5/18/2021	NJ	AS462U	D&A	11	2292439	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.03	Yes
27	5	5/18/2021	NJ	AW559L	D&A	7	2292438	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.76	Yes
28	6	5/18/2021	NJ	AW671S	D&A	56	2292437	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	21.49	Yes
29	7	5/18/2021	NJ	AW191T	D&A	14	2292436	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.62	Yes
30	8	5/18/2021	NJ	AW840A	D&A	52	2292435	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.44	Yes
31	9	5/18/2021	NJ	AS500Y	D&A	13	2292440	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.86	Yes
32	10	5/18/2021	NJ	AW920X	D&A	60	2292441	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.05	Yes
33	11	5/18/2021	NJ	AW919X	D&A	59	2292464	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.02	Yes
34	12	5/18/2021	NJ	AS461U	D&A	10	2292458	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	22.76	Yes
35	13	5/18/2021	NJ	AW244V	D&A	2	2292456	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	21.50	Yes
36	14	5/18/2021	NJ	AT515L	D&A	3	2292455	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	21.04	Yes
37	15	5/18/2021	NJ	AW711R	D&A	55	2292457	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.26	Yes
38	16	5/18/2021	NJ	AW918X	D&A	58	2292459	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.71	Yes
39	17	5/18/2021	NJ	AS462U	D&A	11	2292460	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.78	Yes
40	18	5/18/2021	NJ	AU436J	D&A	36	2292461	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.34	Yes
41	19	5/18/2021	NJ	AW671S	D&A	56	2292462	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	20.60	Yes
42	20	5/18/2021	NJ	AW559L	D&A	7	2292463	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.72	Yes
43	21	5/18/2021	NJ	AS500Y	D&A	13	2292454	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.04	Yes
44	22	5/18/2021	NJ	AW191T	D&A	14	2292453	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.89	Yes
45	23	5/18/2021	NJ	AW919X	D&A	59	2292452	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.33	Yes
46	24	5/18/2021	NJ	AW920X	D&A	60	2292451	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.29	Yes
47	25	5/18/2021	NJ	AU740H	D&A	31	2292450	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.64	Yes
48	26	5/18/2021	NJ	AU825V	D&A	44	2292445	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.44	Yes
49	27	5/18/2021	NJ	AW404V	D&A	48	2292446	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.75	Yes
50	28	5/18/2021	NJ	AU435F	D&A	29	2292447	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	21.34	Yes
51	29	5/18/2021	NJ	AU872D	D&A	25	2292449	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.80	Yes
52	30	5/18/2021	NJ	AU674Y	D&A	51	2292465	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.71	Yes
53	31	5/18/2021	NJ	AU522N	D&A	39	2292466	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.70	Yes
54	32	5/18/2021	NJ	AU426R	D&A	40	2292467	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.72	Yes

**Table 3
Soil Disposal Summary**

414 Gerard Avenue
Bronx, New York
BCP Site No. C203106
Langan Project Number. 170488401

Disposal Facility	513 Loads	10,260 cubic yards (CY)	Waste Type	Loads	Tons	Contractor:
Clean Earth of Cateret (CEC)	22 Loads	440 CY	Non-Hazardous Historic Fill	22	615.92	Soil Broker: N/A
Clean Earth of Bethlehem (BE)	491 Loads	9,820 CY	Non-Hazardous Historic Fill	491	13,451.59	Job #: 170488401
				14,067.51 Tons (Total)		

Transporter Info							Waste Tracking					Disposal Facility Info		
Total Load Count	Daily Load Count	Date	State	License	Truck Company	Truck #	Manifest #	Grid Location	Waste Type	Disposal Facility	Quantity (cy)	Estimated Weight (tons)	Confirmed Weight (tons)	Counter-signed?
55	1	5/19/2021	NJ	AT880N	D&A	20	2292491	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	21.14	Yes
56	2	5/19/2021	NJ	AW858D	D&A	353	2292490	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.81	Yes
57	3	5/19/2021	NJ	AT879N	D&A	19	2300300	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.16	Yes
58	4	5/19/2021	NJ	AW711R	D&A	55	2300301	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	22.59	Yes
59	5	5/19/2021	NJ	AS461U	D&A	10	2300302	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.46	Yes
60	6	5/19/2021	NJ	AW244V	D&A	2	2300305	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.24	Yes
61	7	5/19/2021	NJ	AW710R	D&A	15	2300306	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.89	Yes
62	8	5/19/2021	NJ	AU522N	D&A	39	2300307	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.31	Yes
63	9	5/19/2021	NJ	AW393Y	D&A	46	2300308	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	21.12	Yes
64	10	5/19/2021	NJ	AW560L	D&A	8	2300309	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.44	Yes
65	11	5/19/2021	NJ	AW672S	D&A	57	2300310	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.57	Yes
66	12	5/19/2021	NJ	AS444X	SERPA	3	2292489	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.95	Yes
67	13	5/19/2021	NJ	AU837N	SERPA	4	2300311	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.02	Yes
68	14	5/19/2021	NJ	AW858D	D&A	343	2300312	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.24	Yes
69	15	5/19/2021	NJ	AU115T	LOGITECH	34	2300313	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	20.66	Yes
70	16	5/19/2021	NJ	AW710R	D&A	15	2292468	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.73	Yes
71	17	5/19/2021	NJ	AS461U	D&A	10	2300314	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	22.36	Yes
72	18	5/19/2021	NJ	AW244V	D&A	2	2300315	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	22.03	Yes
73	19	5/19/2021	NJ	AU522N	D&A	39	2300316	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.38	Yes
74	20	5/19/2021	NJ	AW393Y	D&A	46	2300318	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	22.16	Yes
75	21	5/19/2021	NJ	AW672S	D&A	57	2300317	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	22.96	Yes
76	22	5/19/2021	NJ	AW560L	D&A	8	2300303	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.54	Yes
77	23	5/19/2021	NJ	AU807Y	LOGITECH	31	2292493	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	22.56	Yes
78	24	5/19/2021	NJ	AW525Y	D&A	45	2292478	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.93	Yes
79	25	5/19/2021	NJ	AU521N	D&A	37	2292477	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.01	Yes
80	26	5/19/2021	NJ	AW690L	LOGITECH	3	2292476	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.28	Yes
81	27	5/19/2021	NJ	AT880N	D&A	20	2292475	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.54	Yes
82	28	5/19/2021	NJ	AW711R	D&A	55	2292474	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.72	Yes
83	29	5/19/2021	NJ	AT879N	D&A	19	2292473	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.11	Yes
84	30	5/19/2021	NJ	AW671S	D&A	56	2292472	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	19.47	Yes
85	31	5/19/2021	NJ	AU435J	D&A	34	2292471	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.57	Yes
86	32	5/19/2021	NJ	AU273U	D&A	42	2292470	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.98	Yes
87	33	5/19/2021	NJ	AU134R	LOGITECH	21	2292469	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	22.21	Yes
88	34	5/19/2021	NJ	AU970Z	LOGITECH	17	2292488	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.24	Yes
89	35	5/19/2021	NJ	AU809Y	LOGITECH	29	2292487	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.21	Yes
90	36	5/19/2021	NJ	AU224A	LOGITECH	11	2292485	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.03	Yes
91	37	5/19/2021	NJ	AU427R	D&A	41	2292486	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.50	Yes
92	38	5/19/2021	NJ	AU195L	LOGITECH	19	2292484	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	21.34	Yes
93	39	5/19/2021	NJ	AW919X	D&A	59	2292483	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.27	Yes
94	40	5/19/2021	NJ	AU873D	D&A	27	2292482	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.50	Yes
95	41	5/19/2021	NJ	AW920X	D&A	60	2292481	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.20	Yes
96	42	5/19/2021	NJ	AW689L	LOGITECH	5	2292480	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	22.14	Yes
97	43	5/19/2021	NJ	AU872D	D&A	25	2292479	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.11	Yes
98	44	5/19/2021	NJ	AS676N	D&A	5	2292499	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.17	Yes

**Table 3
Soil Disposal Summary**

414 Gerard Avenue
Bronx, New York
BCP Site No. C203106
Langan Project Number. 170488401

Disposal Facility	513 Loads	10,260 cubic yards (CY)	Waste Type	Loads	Tons	Contractor:
Clean Earth of Cateret (CEC)	22 Loads	440 CY	Non-Hazardous Historic Fill	22	615.92	Soil Broker: N/A
Clean Earth of Bethlehem (BE)	491 Loads	9,820 CY	Non-Hazardous Historic Fill	491	13,451.59	Job #: 170488401
					14,067.51 Tons (Total)	

Transporter Info							Waste Tracking					Disposal Facility Info		
Total Load Count	Daily Load Count	Date	State	License	Truck Company	Truck #	Manifest #	Grid Location	Waste Type	Disposal Facility	Quantity (cy)	Estimated Weight (tons)	Confirmed Weight (tons)	Counter-signed?
99	1	5/24/2021	NJ	AU259W	LOGITECH	7	2292498	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.43	Yes
100	2	5/24/2021	NJ	AU195L	LOGITECH	19	2292497	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.67	Yes
101	3	5/24/2021	NJ	AW690L	LOGITECH	3	2292496	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.75	Yes
102	4	5/24/2021	NJ	AU807Y	LOGITECH	31	2292492	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.97	Yes
103	5	5/24/2021	NJ	AU970Z	LOGITECH	17	2300304	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.08	Yes
104	6	5/24/2021	NJ	AU115T	LOGITECH	34	2300321	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.42	Yes
105	7	5/24/2021	NJ	AU808Y	LOGITECH	33	2292495	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	22.87	Yes
106	8	5/24/2021	NJ	AU224A	LOGITECH	11	2300322	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.12	Yes
107	9	5/24/2021	NJ	AU692C	LOGITECH	9	2300323	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	22.18	Yes
108	10	5/24/2021	NJ	AU421C	LOGITECH	1	2292494	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	22.23	Yes
109	11	5/24/2021	NJ	AU809Y	LOGITECH	29	2300319	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.30	Yes
110	12	5/24/2021	NJ	AU114T	LOGITECH	23	2300324	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	22.56	Yes
111	13	5/24/2021	NJ	AU134R	LOGITECH	21	2300320	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.13	Yes
112	14	5/24/2021	NJ	AW689L	LOGITECH	5	2300326	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.59	Yes
113	15	5/24/2021	NJ	AU810Y	LOGITECH	25	2300327	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.45	Yes
114	16	5/24/2021	NJ	AU195L	LOGITECH	19	2300338	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.21	Yes
115	17	5/24/2021	NJ	AW690L	LOGITECH	3	2300341	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.18	Yes
116	18	5/24/2021	NJ	AU259W	LOGITECH	7	2300337	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.10	Yes
117	19	5/24/2021	NJ	AU807Y	LOGITECH	31	2300328	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.05	Yes
118	20	5/24/2021	NJ	AU970Z	LOGITECH	17	2300329	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.97	Yes
119	21	5/24/2021	NJ	AU115T	LOGITECH	34	2300330	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.92	Yes
120	22	5/24/2021	NJ	AU224A	LOGITECH	11	2300325	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.48	Yes
121	23	5/24/2021	NJ	AU808Y	LOGITECH	33	2300331	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.34	Yes
122	24	5/24/2021	NJ	AU692C	LOGITECH	9	2300332	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.14	Yes
123	25	5/24/2021	NJ	AU809Y	LOGITECH	29	2300333	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.27	Yes
124	26	5/24/2021	NJ	AW689L	LOGITECH	5	2300339	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.76	Yes
125	27	5/24/2021	NJ	AU114T	LOGITECH	23	2300340	WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.94	Yes
126	28	5/24/2021	NJ	AU810Y	LOGITECH	25	2300335	WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.79	Yes
127	29	5/24/2021	NJ	AU134R	LOGITECH	21	2300334	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.32	Yes
128	1	5/26/2021	NJ	AW690L	LOGITECH	3	2300385	WC01/WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.07	Yes
129	2	5/26/2021	NJ	AU259W	LOGITECH	7	2300384	WC01/WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.78	Yes
130	3	5/26/2021	NJ	AU807Y	LOGITECH	31	2300383	WC01/WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.34	Yes
131	4	5/26/2021	NJ	AU195L	LOGITECH	19	2300381	WC01/WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.17	Yes
132	5	5/26/2021	NJ	AU970Z	LOGITECH	17	2300382	WC01/WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.50	Yes
133	6	5/26/2021	NJ	AU115T	LOGITECH	34	2300380	WC01/WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.89	Yes
134	7	5/26/2021	NJ	AU808Y	LOGITECH	33	2300373	WC01/WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.99	Yes
135	8	5/26/2021	NJ	AU114T	LOGITECH	23	2300374	WC01/WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.22	Yes
136	9	5/26/2021	NJ	AU810Y	LOGITECH	25	2300376	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.31	Yes
137	10	5/26/2021	NJ	AU692C	LOGITECH	9	2300375	WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.86	Yes
138	11	5/26/2021	NJ	AU224A	LOGITECH	11	2300379	WC01/WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.61	Yes
139	12	5/26/2021	NJ	AW689L	LOGITECH	5	2300377	WC01/WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.70	Yes
140	13	5/26/2021	NJ	AU809Y	LOGITECH	29	2300378	WC01/WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.68	Yes
141	14	5/26/2021	NJ	AU421C	LOGITECH	1	2300371	WC01/WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.75	Yes
142	1	5/27/2021	NJ	AU259W	LOGITECH	7	2300429	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.46	Yes
143	2	5/27/2021	NJ	AW548R	AVN	44	2300428	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.23	Yes
144	3	5/27/2021	NJ	AW690L	LOGITECH	3	2300427	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.48	Yes
145	4	5/27/2021	NJ	AU970Z	LOGITECH	17	2300426	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.23	Yes
146	5	5/27/2021	NJ	AW547R	AVN	42	2300425	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.22	Yes
147	6	5/27/2021	NJ	AU115T	LOGITECH	34	2300424	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.15	Yes
148	7	5/27/2021	NJ	AU808Y	LOGITECH	33	2300423	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.05	Yes
149	8	5/27/2021	NJ	AU421C	LOGITECH	1	2300422	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.95	Yes
150	9	5/27/2021	NJ	AW529J	AVN	2	2300421	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.51	Yes
151	10	5/27/2021	NJ	AW291K	AVN	24	2300420	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.56	Yes
152	11	5/27/2021	NJ	AU692C	LOGITECH	9	2300419	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.73	Yes
153	12	5/27/2021	NJ	AW545R	AVN	8	2300418	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.17	Yes
154	13	5/27/2021	NJ	AW546R	AVN	16	2300417	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.07	Yes
155	14	5/27/2021	NJ	AU195L	LOGITECH	19	2300416	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.73	Yes
156	15	5/27/2021	NJ	AU807Y	LOGITECH	31	2300415	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.34	Yes
157	16	5/27/2021	NJ	AU114T	LOGITECH	23	2300414	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.72	Yes
158	17	5/27/2021	NJ	AU810Y	LOGITECH	25	2300413	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.28	Yes
159	18	5/27/2021	NJ	AU224A	LOGITECH	11	2300412	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.99	Yes
160	19	5/27/2021	NJ	AW530J	AVN	4	2300411	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.89	Yes
161	20	5/27/2021	NJ	AW292K	AVN	30	2300410	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	22.05	Yes
162	21	5/27/2021	NJ	AW976P	AVN	32	2300409	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.02	Yes
163	22	5/27/2021	NJ	AW690L	LOGITECH	3	2300408	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.07	Yes
164	23	5/27/2021	NJ	AU970Z	LOGITECH	17	2300407	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.98	Yes
165	24	5/27/2021	NJ	AW547R	AVN	42	2300406	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.46	Yes
166	25	5/27/2021	NJ	AU115T	LOGITECH	34	2300405	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.51	Yes
167	26	5/27/2021	NJ	AW529J	AVN	2	2300404	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.72	Yes
168	27	5/27/2021	NJ	AW545R	AVN	8	2300403	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.30	Yes
169	28	5/27/2021	NJ	AU195L	LOGITECH	19	2300402	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.25	Yes
170	29	5/27/2021	NJ	AU807Y	LOGITECH	31	2300401	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.42	Yes
171	30	5/27/2021	NJ	AW546R	AVN	16	2300372	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.63	Yes

**Table 3
Soil Disposal Summary**

414 Gerard Avenue
Bronx, New York
BCP Site No. C203106
Langan Project Number. 170488401

Disposal Facility	513 Loads	10,260 cubic yards (CY)	Waste Type	Loads	Tons	Contractor:
Clean Earth of Ceteret (CEC)	22 Loads	440 CY	Non-Hazardous Historic Fill	22	615.92	Soil Broker: N/A
Clean Earth of Bethlehem (BE)	491 Loads	9,820 CY	Non-Hazardous Historic Fill	491	13,451.59	Job #: 170488401
					14,067.51 Tons (Total)	

Transporter Info							Waste Tracking					Disposal Facility Info		
Total Load Count	Daily Load Count	Date	State	License	Truck Company	Truck #	Manifest #	Grid Location	Waste Type	Disposal Facility	Quantity (cy)	Estimated Weight (tons)	Confirmed Weight (tons)	Counter-signed?
172	1	6/2/2021	NJ	AW690L	LOGITECH	3	2300437	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.06	Yes
173	2	6/2/2021	NJ	AU195L	LOGITECH	19	2300436	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.13	Yes
174	3	6/2/2021	NJ	AW547R	AVN	42	2300435	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.57	Yes
175	4	6/2/2021	NJ	AU810Y	LOGITECH	25	2300434	WC02/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.79	Yes
176	5	6/2/2021	NJ	AU807Y	LOGITECH	31	2300433	WC02/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.11	Yes
177	6	6/2/2021	NJ	AU115T	LOGITECH	34	2300432	WC02/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.87	Yes
178	7	6/2/2021	NJ	AU808Y	LOGITECH	33	2300460	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.50	Yes
179	8	6/2/2021	NJ	AW291K	AVN	24	2300459	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.51	Yes
180	9	6/2/2021	NJ	AW529J	AVN	2	2300458	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.59	Yes
181	10	6/2/2021	NJ	AW292K	AVN	30	2300457	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	22.96	Yes
182	11	6/2/2021	NJ	AU114T	LOGITECH	23	2300456	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.99	Yes
183	12	6/2/2021	NJ	AU134R	LOGITECH	21	2300455	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.82	Yes
184	13	6/2/2021	NJ	AW545R	AVN	8	2300454	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.92	Yes
185	14	6/2/2021	NJ	AU809Y	LOGITECH	29	2300439	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.41	Yes
186	15	6/2/2021	NJ	AW689L	LOGITECH	5	2300438	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.59	Yes
187	16	6/2/2021	NJ	AW690L	LOGITECH	3	2300440	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.51	Yes
188	17	6/2/2021	NJ	AU195L	LOGITECH	19	2300443	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.81	Yes
189	18	6/2/2021	NJ	AU810Y	LOGITECH	25	2300441	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.64	Yes
190	19	6/2/2021	NJ	AW547R	AVN	42	2300442	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.70	Yes
191	20	6/2/2021	NJ	AU807Y	LOGITECH	31	2300445	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.17	Yes
192	21	6/2/2021	NJ	AU115T	LOGITECH	34	2300431	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.87	Yes
193	22	6/2/2021	NJ	AW529J	AVN	2	2300453	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.36	Yes
194	23	6/2/2021	NJ	AW291K	AVN	24	2300444	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.71	Yes
195	24	6/2/2021	NJ	AU808Y	LOGITECH	33	2300446	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.24	Yes
196	25	6/2/2021	NJ	AU134R	LOGITECH	21	2300449	WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.97	Yes
197	26	6/2/2021	NJ	AW292K	AVN	30	2300448	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.98	Yes
198	27	6/2/2021	NJ	AU114T	LOGITECH	23	2300447	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.13	Yes
199	28	6/2/2021	NJ	AW545R	AVN	8	2300451	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.20	Yes
200	29	6/2/2021	NJ	AW689L	LOGITECH	5	2300452	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.19	Yes
201	30	6/2/2021	NJ	AU809Y	LOGITECH	29	2300450	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.27	Yes
202	1	7/6/2021	NJ	AU970Z	LOGITECH	7	2312680	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.32	Yes
203	2	7/6/2021	NJ	AU808Y	LOGITECH	33	2312679	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.83	Yes
204	3	7/6/2021	NJ	AW291K	LOGITECH	24	2312678	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.33	Yes
205	4	7/6/2021	NJ	AU134R	LOGITECH	21	2312821	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.18	Yes
206	5	7/6/2021	NJ	AW529J	LOGITECH	2	2312677	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.00	Yes
207	6	7/6/2021	NJ	AW689L	LOGITECH	5	2312676	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.35	Yes
208	7	7/6/2021	NJ	AU115T	LOGITECH	34	2312836	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.17	Yes
209	8	7/6/2021	NJ	AW547R	LOGITECH	42	2312833	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.94	Yes
210	9	7/6/2021	NJ	AU810Y	LOGITECH	25	2312827	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.59	Yes
211	10	7/6/2021	NJ	AW545R	LOGITECH	8	2312830	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.99	Yes
212	11	7/6/2021	NJ	AW548R	LOGITECH	44	2312832	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.91	Yes
213	12	7/6/2021	NJ	AU807Y	LOGITECH	31	2312824	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.31	Yes
214	13	7/6/2021	NJ	AW690L	LOGITECH	3	23128389	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.03	Yes
215	14	7/6/2021	NJ	AU195L	LOGITECH	19	2312820	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.12	Yes
216	15	7/6/2021	NJ	AW393Y	LOGITECH	46	2312819	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.26	Yes
217	16	7/6/2021	NJ	AU134R	LOGITECH	21	2312828	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.99	Yes
218	17	7/6/2021	NJ	AU970Z	LOGITECH	17	2312823	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.70	Yes
219	18	7/6/2021	NJ	AW291K	LOGITECH	24	2312825	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.47	Yes
220	19	7/6/2021	NJ	AU808Y	LOGITECH	33	2312839	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.05	Yes
221	20	7/6/2021	NJ	AW529J	LOGITECH	2	2312840	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.72	Yes
222	21	7/6/2021	NJ	AW689L	LOGITECH	5	2312831	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.43	Yes
223	22	7/6/2021	NJ	AT880N	LOGITECH	20	2312835	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.05	Yes
224	23	7/6/2021	NJ	AU521N	LOGITECH	37	2312837	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.07	Yes
225	24	7/6/2021	NJ	AW547R	LOGITECH	42	2312834	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.62	Yes
226	25	7/6/2021	NJ	AU115T	LOGITECH	34	2312829	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.86	Yes
227	26	7/6/2021	NJ	AU872D	LOGITECH	25	2312942	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.66	Yes
228	27	7/6/2021	NJ	AW545R	LOGITECH	8	2312822	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	20.32	Yes
229	28	7/6/2021	NJ	AU810Y	LOGITECH	25	2312841	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.48	Yes
230	29	7/6/2021	NJ	AU427R	LOGITECH	41	2312826	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.53	Yes
231	30	7/6/2021	NJ	AW548R	LOGITECH	44	2312937	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.69	Yes
232	31	7/6/2021	NJ	AU807Y	LOGITECH	31	2312936	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.93	Yes
233	32	7/6/2021	NJ	AW690L	LOGITECH	3	2312938	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.96	Yes
234	33	7/6/2021	NJ	AU195L	LOGITECH	19	2312941	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.58	Yes
235	34	7/6/2021	NJ	AU809Y	LOGITECH	29	2312818	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.56	Yes

Table 3
Soil Disposal Summary

414 Gerard Avenue
Bronx, New York
BCP Site No. C203106
Langan Project Number. 170488401

Disposal Facility	513 Loads	10,260 cubic yards (CY)	Waste Type	Loads	Tons	Contractor:
Clean Earth of Cateret (CEC)	22 Loads	440 CY	Non-Hazardous Historic Fill	22	615.92	Soil Broker: N/A
Clean Earth of Bethlehem (BE)	491 Loads	9,820 CY	Non-Hazardous Historic Fill	491	13,451.59	Job #: 170488401
					14,067.51 Tons (Total)	

Transporter Info							Waste Tracking					Disposal Facility Info		
Total Load Count	Daily Load Count	Date	State	License	Truck Company	Truck #	Manifest #	Grid Location	Waste Type	Disposal Facility	Quantity (cy)	Estimated Weight (tons)	Confirmed Weight (tons)	Counter-signed?
236	1	7/9/2021	NJ	AW545R	AVN	8	2312612	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.86	Yes
237	2	7/9/2021	NJ	AW976P	AVN	32	2312613	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.16	Yes
238	3	7/9/2021	NJ	AW672S	D&A	57	2312614	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.18	Yes
239	4	7/9/2021	NJ	AW562C	D&A	53	2312615	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.25	Yes
240	5	7/9/2021	NJ	AU808Y	LOGITECH	33	2312616	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.03	Yes
241	6	7/9/2021	NJ	AW291K	AVN	24	2312617	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.97	Yes
242	7	7/9/2021	NJ	AW548R	AVN	44	2312618	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.68	Yes
243	8	7/9/2021	NJ	AW547R	AVN	42	2312619	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.18	Yes
244	9	7/9/2021	NJ	AU195L	LOGITECH	19	2312620	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.06	Yes
245	10	7/9/2021	NJ	AU807Y	LOGITECH	31	2312621	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.31	Yes
246	11	7/9/2021	NJ	AU970Z	LOGITECH	17	2312622	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.89	Yes
247	12	7/9/2021	NJ	AW529J	AVN	2	2312623	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.54	Yes
248	13	7/9/2021	NJ	AW711R	D&A	55	2312729	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.44	Yes
249	14	7/9/2021	NJ	AW671S	D&A	56	2312730	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.48	Yes
250	15	7/9/2021	NJ	AW810Y	LOGITECH	25	2312731	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.75	Yes
251	16	7/9/2021	NJ	AU115T	LOGITECH	34	2312732	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.72	Yes
252	17	7/9/2021	NJ	AW546R	AVN	16	2312733	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.25	Yes
253	18	7/9/2021	NJ	AW918X	D&A	58	2312734	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.39	Yes
254	19	7/9/2021	NJ	AW689L	LOGITECH	5	2312735	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.65	Yes
255	20	7/9/2021	NJ	AW975P	AVN	26	2312736	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.89	Yes
256	1	7/13/2021	NJ	AW976P	AVN	32	2312737	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.27	Yes
257	2	7/13/2021	NJ	AW547R	AVN	42	2312738	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.05	Yes
258	3	7/13/2021	NJ	AU195L	LOGITECH	19	2312739	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.96	Yes
259	4	7/13/2021	NJ	AU807Y	LOGITECH	31	2312740	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.78	Yes
260	5	7/13/2021	NJ	AW548R	AVN	44	2312741	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.55	Yes
261	6	7/13/2021	NJ	AU970Z	LOGITECH	17	2312743	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.74	Yes
262	7	7/13/2021	NJ	AW529J	AVN	2	2312744	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.80	Yes
263	8	7/13/2021	NJ	AW291K	AVN	24	2312745	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.34	Yes
264	9	7/13/2021	NJ	AU810Y	LOGITECH	25	2312746	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.66	Yes
265	10	7/13/2021	NJ	AW292K	AVN	30	2312747	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.79	Yes
266	11	7/13/2021	NJ	AW689L	LOGITECH	5	2312748	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.88	Yes
267	12	7/13/2021	NJ	AW545R	AVN	8	2312749	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.86	Yes
268	13	7/13/2021	NJ	AU808Y	LOGITECH	33	2312750	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.55	Yes
269	14	7/13/2021	NJ	AW690L	LOGITECH	3	2312751	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.14	Yes
270	15	7/13/2021	NJ	AW975P	AVN	26	2312752	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.51	Yes
271	16	7/13/2021	NJ	AW976P	AVN	32	2312753	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.05	Yes
272	17	7/13/2021	NJ	AW547R	AVN	42	2312754	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.35	Yes
273	18	7/13/2021	NJ	AU195L	LOGITECH	19	2312755	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.01	Yes
274	19	7/13/2021	NJ	AU807Y	LOGITECH	31	2312756	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.47	Yes
275	20	7/13/2021	NJ	AX925D	D&A	61	2312759	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.76	Yes
276	21	7/13/2021	NJ	AW529J	AVN	2	2312757	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.09	Yes
277	22	7/13/2021	NJ	AW548R	AVN	44	2312758	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.93	Yes
278	23	7/13/2021	NJ	AU970Z	LOGITECH	17	2312760	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.71	Yes
279	24	7/13/2021	NJ	AW291K	AVN	24	2312761	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.68	Yes
280	25	7/13/2021	NJ	AU807Y	LOGITECH	25	2312762	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.64	Yes
281	26	7/13/2021	NJ	AW689L	LOGITECH	5	2312764	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.58	Yes
282	27	7/13/2021	NJ	AW975P	AVN	26	2312765	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.49	Yes
283	28	7/13/2021	NJ	AT879N	D&A	19	2312766	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.09	Yes
284	29	7/13/2021	NJ	AU873D	D&A	27	2312767	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.87	Yes
285	30	7/13/2021	NJ	AW525Y	D&A	45	2312768	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	32.60	Yes
286	31	7/13/2021	NJ	AU674Y	D&A	51	2312769	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.60	Yes
287	32	7/13/2021	NJ	AT515L	D&A	3	2312770	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.55	Yes
288	33	7/13/2021	NJ	AW670S	D&A	33	2312771	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.75	Yes
289	34	7/13/2021	NJ	AW859D	D&A	4	2312772	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.75	Yes
290	35	7/13/2021	NJ	AU808Y	LOGITECH	33	2312773	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.03	Yes
291	36	7/13/2021	NJ	AU707U	D&A	43	2312774	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.35	Yes
292	37	7/13/2021	NJ	AT880N	D&A	20	2312775	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.40	Yes
293	38	7/13/2021	NJ	AW545R	AVN	8	2312763	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	32.05	Yes

**Table 3
Soil Disposal Summary**

414 Gerard Avenue
Bronx, New York
BCP Site No. C203106
Langan Project Number. 170488401

Disposal Facility		513 Loads	10,260 cubic yards (CY)	Waste Type	Loads	Tons	Contractor:
Clean Earth of Cateret (CEC)		22 Loads	440 CY	Non-Hazardous Historic Fill	22	615.92	Soil Broker: N/A
Clean Earth of Bethlehem (BE)		491 Loads	9,820 CY	Non-Hazardous Historic Fill	491	13,451.59	Job #: 170488401
						14,067.51 Tons (Total)	

Transporter Info							Waste Tracking					Disposal Facility Info		
Total Load Count	Daily Load Count	Date	State	License	Truck Company	Truck #	Manifest #	Grid Location	Waste Type	Disposal Facility	Quantity (cy)	Estimated Weight (tons)	Confirmed Weight (tons)	Counter-signed?
294	1	7/19/2021	NJ	AS500Y	D&A	13	2312895	WC01/WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.75	Yes
295	2	7/19/2021	NJ	AW857D	D&A	12	2312896	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.15	Yes
296	3	7/19/2021	NJ	AU426R	D&A	40	2312898	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	22.60	Yes
297	4	7/19/2021	NJ	AS412T	D&A	6	2312897	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.11	Yes
298	5	7/19/2021	NJ	AW547R	AVN	42	2312899	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.41	Yes
299	6	7/19/2021	NJ	AU739H	D&A	30	2312900	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.26	Yes
300	7	7/19/2021	NJ	AW548R	AVN	44	2312902	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.05	Yes
301	8	7/19/2021	NJ	AW529J	AVN	2	2312904	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.44	Yes
302	9	7/19/2021	NJ	AU807Y	LOGITECH	31	2312906	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	21.92	Yes
303	10	7/19/2021	NJ	AU808Y	LOGITECH	33	2312907	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	21.43	Yes
304	11	7/19/2021	NJ	AW291K	AVN	24	2312908	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.99	Yes
305	12	7/19/2021	NJ	AW559L	D&A	7	2312909	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.27	Yes
306	13	7/19/2021	NJ	AW545R	AVN	8	2312910	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.94	Yes
307	14	7/19/2021	NJ	AW404W	D&A	8	2312911	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.15	Yes
308	1	7/20/2021	NJ	AU195L	LOGITECH	19	2312918	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.46	Yes
309	2	7/20/2021	NJ	AU807Y	LOGITECH	31	2312917	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.50	Yes
310	3	7/20/2021	NJ	AW291K	AVN	24	2312915	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	22.79	Yes
311	4	7/20/2021	NJ	AW546R	AVN	16	2312922	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.27	Yes
312	5	7/20/2021	NJ	AW690L	LOGITECH	3	2312924	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.07	Yes
313	6	7/20/2021	NJ	AW689L	LOGITECH	5	2312926	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.33	Yes
314	7	7/20/2021	NJ	AT878N	D&A	18	2312927	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.04	Yes
315	8	7/20/2021	NJ	AW545R	AVN	8	2312928	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.27	Yes
316	9	7/20/2021	NJ	AW292K	LOGITECH	30	2312929	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.07	Yes
317	10	7/20/2021	NJ	AW291K	AVN	24	2299017	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.89	Yes
318	11	7/20/2021	NJ	AW711R	D&A	55	2299015	WC01/WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.96	Yes
319	12	7/20/2021	NJ	AW689L	LOGITECH	5	2299014	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.90	Yes
320	13	7/20/2021	NJ	AW690L	LOGITECH	3	2299013	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.71	Yes
321	14	7/20/2021	NJ	AU707U	D&A	43	2299011	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	20.52	Yes
322	15	7/20/2021	NJ	AU435F	D&A	29	2299010	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.65	Yes
323	16	7/20/2021	NJ	AT517L	D&A	17	2299009	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	22.60	Yes
324	17	7/20/2021	NJ	AW670S	D&A	33	2299008	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.32	Yes
325	1	7/22/2021	NJ	AU807Y	Logitech	31	2299004	WC01/WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.00	Yes
326	2	7/22/2021	NJ	AW548R	AVN	44	2299005	WC01/WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.87	Yes
327	3	7/22/2021	NJ	AW291K	Logitech	24	2299007	WC01/WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.90	Yes
328	4	7/22/2021	NJ	AU808Y	AVN	33	2299006	WC01/WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.19	Yes
329	5	7/22/2021	NJ	AW545R	AVN	8	2299025	WC01/WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.63	Yes
330	6	7/22/2021	NJ	AU810Y	Logitech	25	2299026	WC01/WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.22	Yes
331	7	7/22/2021	NJ	AW690L	Logitech	3	2299027	WC01/WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	33.57	Yes
332	8	7/22/2021	NJ	AW292K	AVN	30	2299028	WC01/WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.89	Yes
333	9	7/22/2021	NJ	AU195L	Logitech	19	2299029	WC01/WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.15	Yes
334	10	7/22/2021	NJ	AW689L	Logitech	5	2299030	WC01/WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.79	Yes
335	1	7/26/2021	NJ	AW529J	AVN	2	2312887	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	32.04	Yes
336	2	7/26/2021	NJ	AW548R	AVN	44	2312888	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	33.36	Yes
337	3	7/26/2021	NJ	AW292K	LOGITECH	30	2299031	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.42	Yes
338	4	7/26/2021	NJ	AW690L	LOGITECH	3	2299032	WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	32.52	Yes
339	5	7/26/2021	NJ	AU809Y	LOGITECH	29	2299033	WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.81	Yes
340	6	7/26/2021	NJ	AW546R	AVN	16	2299034	WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	32.84	Yes
341	7	7/26/2021	NJ	AU114T	LOGITECH	23	2299035	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.51	Yes
342	8	7/26/2021	NJ	AU195L	LOGITECH	19	2299036	WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.88	Yes
343	9	7/26/2021	NJ	AW976P	AVN	32	2299037	WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	32.48	Yes
344	10	7/26/2021	NJ	AW547R	AVN	42	2299038	WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	34.38	Yes
345	1	7/27/2021	NJ	AW548R	AVN	44	2299040	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.74	Yes
346	2	7/27/2021	NJ	AW529J	AVN	2	2299041	WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.79	Yes
347	3	7/27/2021	NJ	AU115T	LOGITECH	34	2299042	WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.87	Yes
348	4	7/27/2021	NJ	AU195L	LOGITECH	19	2299043	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.95	Yes
349	5	7/27/2021	NJ	AU807Y	LOGITECH	31	2299044	WC02/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.00	Yes
350	6	7/27/2021	NJ	AU808Y	LOGITECH	33	2299045	WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.36	Yes
351	7	7/27/2021	NJ	AW291K	AVN	24	2299046	WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.03	Yes
352	8	7/27/2021	NJ	AW545R	AVN	8	2299047	WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.36	Yes
353	9	7/27/2021	NJ	AU114T	LOGITECH	23	2299048	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	32.14	Yes
354	10	7/27/2021	NJ	AW690L	LOGITECH	3	2299049	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	33.36	Yes
355	11	7/27/2021	NJ	AW546R	AVN	16	2299050	WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	32.46	Yes
356	12	7/27/2021	NJ	AU134R	LOGITECH	21	2299051	WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.99	Yes
357	13	7/27/2021	NJ	AW975P	AVN	26	2299052	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.50	Yes
358	14	7/27/2021	NJ	AW689L	LOGITECH	5	2299053	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.64	Yes
359	15	7/27/2021	NJ	AW976P	AVN	32	2299054	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	34.20	Yes
360	16	7/27/2021	NJ	AU810Y	LOGITECH	25	2299055	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.70	Yes
361	17	7/27/2021	NJ	AW548R	AVN	44	2299056	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.64	Yes
362	18	7/27/2021	NJ	AU970Z	LOGITECH	17	2299057	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.31	Yes
363	19	7/27/2021	NJ	AW530J	AVN	42	2299058	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.35	Yes

Table 3
Soil Disposal Summary

414 Gerard Avenue
Bronx, New York
BCP Site No. C203106
Langan Project Number. 170488401

Disposal Facility		513 Loads	10,260 cubic yards (CY)	Waste Type	Loads	Tons	Contractor:
Clean Earth of Cateret (CEC)		22 Loads	440 CY	Non-Hazardous Historic Fill	22	615.92	Soil Broker: N/A
Clean Earth of Bethlehem (BE)		491 Loads	9,820 CY	Non-Hazardous Historic Fill	491	13,451.59	Job #: 170488401
						14,067.51 Tons (Total)	

Transporter Info							Waste Tracking					Disposal Facility Info		
Total Load Count	Daily Load Count	Date	State	License	Truck Company	Truck #	Manifest #	Grid Location	Waste Type	Disposal Facility	Quantity (cy)	Estimated Weight (tons)	Confirmed Weight (tons)	Counter-signed?
364	1	7/29/2021	NJ	AW976P	LOGITECH	32	2299059	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.89	Yes
365	2	7/29/2021	NJ	AW546R	AVN	16	2299063	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	32.60	Yes
366	3	7/29/2021	NJ	AU970Z	LOGITECH	17	2299067	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.74	Yes
367	4	7/29/2021	NJ	AU807Y	LOGITECH	31	2299070	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.08	Yes
368	5	7/29/2021	NJ	AU115T	LOGITECH	34	2299071	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.36	Yes
369	6	7/29/2021	NJ	AW530J	AVN	4	2299072	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.40	Yes
370	7	7/29/2021	NJ	AU808Y	LOGITECH	33	2299073	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.47	Yes
371	8	7/29/2021	NJ	AW291K	AVN	24	2299074	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.78	Yes
372	9	7/29/2021	NJ	AW292K	LOGITECH	30	2299075	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.37	Yes
373	10	7/29/2021	NJ	AW545R	AVN	8	2299076	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.97	Yes
374	11	7/29/2021	NJ	AW690L	LOGITECH	3	2299077	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.21	Yes
375	12	7/29/2021	NJ	AW546R	AVN	16	2299078	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.95	Yes
376	13	7/29/2021	NJ	AW976P	AVN	32	2299079	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.61	Yes
377	14	7/29/2021	NJ	AU810Y	LOGITECH	25	2299080	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.06	Yes
378	15	7/29/2021	NJ	AU195L	LOGITECH	19	2299081	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.29	Yes
379	16	7/29/2021	NJ	AW529J	AVN	2	2299082	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.73	Yes
380	17	7/29/2021	NJ	AU970Z	LOGITECH	17	2299083	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.00	Yes
381	18	7/29/2021	NJ	AU807Y	LOGITECH	31	2299084	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.02	Yes
382	19	7/29/2021	NJ	AW548R	AVN	44	2299085	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.40	Yes
383	20	7/29/2021	NJ	AW547R	AVN	42	2299090	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.52	Yes
384	21	7/29/2021	NJ	AW292K	LOGITECH	30	2299091	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.00	Yes
385	22	7/29/2021	NJ	AU808Y	LOGITECH	33	2299087	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.41	Yes
386	23	7/29/2021	NJ	AW291K	AVN	24	2299088	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.41	Yes
387	24	7/29/2021	NJ	AW530J	AVN	4	2299089	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.69	Yes
388	25	7/29/2021	NJ	AU810Y	LOGITECH	25	2299065	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.58	Yes
389	26	7/29/2021	NJ	AU115T	LOGITECH	34	2299086	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.23	Yes
390	27	7/29/2021	NJ	AU195L	LOGITECH	19	2299066	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.68	Yes
391	28	7/29/2021	NJ	AW529J	LOGITECH	2	2299068	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.90	Yes
392	29	7/29/2021	NJ	AW548R	AVN	47	2299069	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.09	Yes
393	30	7/29/2021	NJ	AW976P	LOGITECH	32	2299065	WC03/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.58	Yes
394	1	7/30/2021	NJ	AU970Z	LOGITECH	17	2299092	WC02/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.84	Yes
395	2	7/30/2021	NJ	AU810Y	LOGITECH	25	2299093	WC02/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.59	Yes
396	3	7/30/2021	NJ	AW547R	AVN	42	2299094	WC02/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.37	Yes
397	4	7/30/2021	NJ	AW530J	AVN	4	2299095	WC02/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	22.28	Yes
398	5	7/30/2021	NJ	AU809Y	LOGITECH	29	2299096	WC02/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.45	Yes
399	6	7/30/2021	NJ	AU115T	LOGITECH	34	2299097	WC02/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	22.14	Yes
400	7	7/30/2021	NJ	AU259W	LOGITECH	7	2299098	WC02/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.74	Yes
401	8	7/30/2021	NJ	AU114T	LOGITECH	23	2299099	WC02/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.77	Yes
402	9	7/30/2021	NJ	AW689L	LOGITECH	5	2299100	WC02/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.36	Yes
403	10	7/30/2021	NJ	AW291K	LOGITECH	20	2299101	WC02/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.65	Yes
404	11	7/30/2021	NJ	AU970Z	LOGITECH	17	2299102	WC02/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.64	Yes
405	12	7/30/2021	NJ	AW547R	AVN	42	2299103	WC02/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.06	Yes
406	13	7/30/2021	NJ	AU809Y	AVN	29	2299104	WC02/WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.72	Yes
407	1	8/5/2021	NJ	AU970Z	Logitech	17	2312858	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	22.69	Yes
408	2	8/5/2021	NJ	AW690L	Logitech	3	2312859	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.51	Yes
409	3	8/5/2021	NJ	AU810Y	Logitech	25	2312860	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.78	Yes
410	4	8/5/2021	NJ	AW529J	AVN	2	2312861	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.59	Yes
411	5	8/5/2021	NJ	AU808Y	Logitech	33	2312862	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.21	Yes
412	6	8/5/2021	NJ	AW291K	AVN	24	2312863	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.95	Yes
413	7	8/5/2021	NJ	AU115T	Logitech	34	2312864	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.72	Yes
414	8	8/5/2021	NJ	AW545R	AVN	8	2312865	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.54	Yes
415	9	8/5/2021	NJ	AU807Y	Logitech	31	2312866	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.38	Yes
416	10	8/5/2021	NJ	AU195L	Logitech	19	2312867	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.46	Yes
417	1	8/6/2021	NJ	AW976P	AVN	32	2299059	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.55	Yes
418	2	8/6/2021	NJ	AU970Z	Logitech	17	2299060	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.06	Yes
419	3	8/6/2021	NJ	AW546R	AVN	16	2299061	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.43	Yes
420	4	8/6/2021	NJ	AU810Y	Logitech	25	2299062	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.63	Yes
421	5	8/6/2021	NJ	AW690L	Logitech	3	2299106	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.68	Yes
422	6	8/6/2021	NJ	AU195L	Logitech	19	2299107	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.05	Yes
423	7	8/6/2021	NJ	AW529J	AVN	2	2299108	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.45	Yes
424	8	8/6/2021	NJ	AW548R	AVN	44	2299109	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.33	Yes
425	9	8/6/2021	NJ	AU809Y	Logitech	29	2299110	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.58	Yes
426	10	8/6/2021	NJ	AU115T	Logitech	34	2299111	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.92	Yes
427	11	8/6/2021	NJ	AU114T	Logitech	23	2299112	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.81	Yes
428	12	8/6/2021	NJ	AU134R	Logitech	21	2299113	WC02/WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.84	Yes
429	13	8/6/2021	NJ	AU259W	Logitech	7	2299114	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	18.62	Yes
430	14	8/6/2021	NJ	AW545R	AVN	8	2299115	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.56	Yes
431	15	8/6/2021	NJ	AW547R	AVN	42	2299116	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.63	Yes

**Table 3
Soil Disposal Summary**

414 Gerard Avenue
Bronx, New York
BCP Site No. C203106
Langan Project Number. 170488401

Disposal Facility		513 Loads	10,260 cubic yards (CY)	Waste Type	Loads	Tons	Contractor:
Clean Earth of Cateret (CEC)		22 Loads	440 CY	Non-Hazardous Historic Fill	22	615.92	Soil Broker: N/A
Clean Earth of Bethlehem (BE)		491 Loads	9,820 CY	Non-Hazardous Historic Fill	491	13,451.59	Job #: 170488401
						14,067.51 Tons (Total)	

Transporter Info							Waste Tracking					Disposal Facility Info		
Total Load Count	Daily Load Count	Date	State	License	Truck Company	Truck #	Manifest #	Grid Location	Waste Type	Disposal Facility	Quantity (cy)	Estimated Weight (tons)	Confirmed Weight (tons)	Counter-signed?
432	1	8/11/2021	NJ	AU970Z	LOGITECH	17	2299117	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.31	Yes
433	2	8/11/2021	NJ	AU810Y	LOGITECH	25	2299118	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.60	Yes
434	3	8/11/2021	NJ	AW976P	AVN	32	2299119	WC01	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.67	Yes
435	4	8/11/2021	NJ	AW548R	AVN	44	2299120	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.74	Yes
436	5	8/11/2021	NJ	AU115T	LOGITECH	34	2299121	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.77	Yes
437	6	8/11/2021	NJ	AU809Y	LOGITECH	29	2299122	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.97	Yes
438	1	8/13/2021	NJ	AU195L	LOGITECH	19	2299123	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.30	Yes
439	2	8/13/2021	NJ	AW690L	LOGITECH	3	2299124	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.32	Yes
440	3	8/13/2021	NJ	AU807Y	LOGITECH	31	2299125	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.48	Yes
441	4	8/13/2021	NJ	AW292K	AVN	30	2299126	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.45	Yes
442	5	8/13/2021	NJ	AW530J	AVN	4	2299127	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.57	Yes
443	6	8/13/2021	NJ	AU115T	LOGITECH	34	2299128	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.49	Yes
444	7	8/13/2021	NJ	AW548R	AVN	44	2299129	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.20	Yes
445	8	8/13/2021	NJ	AU421C	LOGITECH	1	2299130	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.64	Yes
446	9	8/13/2021	NJ	AU808Y	LOGITECH	33	2299131	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.08	Yes
447	10	8/13/2021	NJ	AW291K	AVN	24	2299132	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.63	Yes
448	11	8/13/2021	NJ	AU195L	LOGITECH	19	2299133	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.51	Yes
449	12	8/13/2021	NJ	AW690L	LOGITECH	3	2299134	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.18	Yes
450	13	8/13/2021	NJ	AU870Y	LOGITECH	31	2299135	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.62	Yes
451	14	8/13/2021	NJ	AU115T	LOGITECH	34	2299136	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.32	Yes
452	15	8/13/2021	NJ	AW292K	AVN	30	2299137	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.33	Yes
453	16	8/13/2021	NJ	AW548R	AVN	44	2299138	WC02	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.34	Yes
454	17	8/13/2021	NJ	AW530J	AVN	4	2299139	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.09	Yes
455	18	8/13/2021	NJ	AU421C	LOGITECH	1	2299140	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.29	Yes
456	19	8/13/2021	NJ	AW291K	AVN	24	2299141	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.69	Yes
457	20	8/13/2021	NJ	AU808Y	LOGITECH	33	2299142	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.04	Yes
458	1	8/16/2021	NJ	AW690L	LOGITECH	3	2299143	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	34.90	Yes
459	2	8/16/2021	NJ	AW292K	AVN	30	2299144	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	33.07	Yes
460	3	8/16/2021	NJ	AU808Y	LOGITECH	33	2299145	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	33.46	Yes
461	4	8/16/2021	NJ	AW291K	AVN	24	2299146	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	34.04	Yes
462	1	8/17/2021	NJ	AW530J	AVN	4	2299147	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	32.95	Yes
463	2	8/17/2021	NJ	AW292K	AVN	30	2299148	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	33.04	Yes
464	3	8/17/2021	NJ	AU808Y	LOGITECH	33	2299149	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.35	Yes
465	4	8/17/2021	NJ	AW291K	AVN	24	2299150	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.86	Yes
466	5	8/17/2021	NJ	AW548R	AVN	44	2299151	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	32.38	Yes
467	6	8/17/2021	NJ	AW690L	LOGITECH	3	2299152	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	32.75	Yes
468	7	8/17/2021	NJ	AW547R	AVN	42	2299153	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	34.92	Yes
469	8	8/17/2021	NJ	AU195L	LOGITECH	19	2299154	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.74	Yes
470	9	8/17/2021	NJ	AW529J	AVN	2	2299155	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.59	Yes
471	10	8/17/2021	NJ	AU807Y	LOGITECH	31	2299156	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.79	Yes
472	11	8/17/2021	NJ	AU224A	LOGITECH	11	2299157	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.61	Yes
473	12	8/17/2021	NJ	AW689L	LOGITECH	5	2299158	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.71	Yes
474	13	8/17/2021	NJ	AU114T	LOGITECH	23	2299159	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.87	Yes
475	14	8/17/2021	NJ	AU134R	LOGITECH	21	2299160	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	33.46	Yes
476	15	8/17/2021	NJ	AU970Z	LOGITECH	17	2299161	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.78	Yes
477	16	8/17/2021	NJ	AW545R	AVN	8	2299162	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	34.00	Yes
478	17	8/17/2021	NJ	AW546R	AVN	16	2299163	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	32.95	Yes
479	18	8/17/2021	NJ	AW530J	AVN	4	2299164	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.28	Yes
480	19	8/17/2021	NJ	AW292K	AVN	30	2299165	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.41	Yes
481	20	8/17/2021	NJ	AU808Y	LOGITECH	33	2299166	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.95	Yes
482	21	8/17/2021	NJ	AW291K	AVN	24	2299167	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.98	Yes
483	22	8/17/2021	NJ	AW690L	LOGITECH	3	2299168	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	33.49	Yes
484	23	8/17/2021	NJ	AW547R	AVN	42	2299169	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	32.38	Yes
485	24	8/17/2021	NJ	AW548R	AVN	44	2299170	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.31	Yes
486	25	8/17/2021	NJ	AU195L	LOGITECH	19	2299171	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	24.44	Yes
487	26	8/17/2021	NJ	AU224A	LOGITECH	11	2299172	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	26.58	Yes

**Table 3
Soil Disposal Summary**

414 Gerard Avenue
Bronx, New York
BCP Site No. C203106
Langan Project Number. 170488401

Disposal Facility	513 Loads	10,260 cubic yards (CY)	Waste Type	Loads	Tons	Contractor:
Clean Earth of Cateret (CEC)	22 Loads	440 CY	Non-Hazardous Historic Fill	22	615.92	Soil Broker: N/A
Clean Earth of Bethlehem (BE)	491 Loads	9,820 CY	Non-Hazardous Historic Fill	491	13,451.59	Job #: 170488401
					14,067.51 Tons (Total)	

Transporter Info							Waste Tracking					Disposal Facility Info		
Total Load Count	Daily Load Count	Date	State	License	Truck Company	Truck #	Manifest #	Grid Location	Waste Type	Disposal Facility	Quantity (cy)	Estimated Weight (tons)	Confirmed Weight (tons)	Counter-signed?
488	1	8/18/2021	NJ	AU970Z	LOGITECH	17	2299176	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.76	Yes
489	2	8/18/2021	NJ	AW690L	LOGITECH	30	2299177	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	33.02	Yes
490	3	8/18/2021	NJ	AW548R	AVN	44	2299178	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.03	Yes
491	4	8/18/2021	NJ	AW530J	AVN	4	2299179	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.96	Yes
492	5	8/18/2021	NJ	AU810Y	LOGITECH	25	2299180	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.17	Yes
493	6	8/18/2021	NJ	AW529J	AVN	2	2299181	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	29.34	Yes
494	7	8/18/2021	NJ	AU808Y	LOGITECH	33	2299182	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.54	Yes
495	8	8/18/2021	NJ	AW291K	AVN	24	2299183	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.85	Yes
496	9	8/18/2021	NJ	AU807Y	LOGITECH	31	2299184	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	32.85	Yes
497	10	8/18/2021	NJ	AU195L	LOGITECH	19	2299185	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.34	Yes
498	11	8/18/2021	NJ	AW546R	AVN	16	2299186	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.41	Yes
499	12	8/18/2021	NJ	AW545R	AVN	8	2299187	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.34	Yes
500	13	8/18/2021	NJ	AU134R	LOGITECH	21	2299188	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	33.28	Yes
501	14	8/18/2021	NJ	AW292K	AVN	30	2299189	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.13	Yes
502	15	8/18/2021	NJ	AW547R	AVN	42	2299190	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	32.95	Yes
503	16	8/18/2021	NJ	AW690L	LOGITECH	3	2299191	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.54	Yes
504	17	8/18/2021	NJ	AU970Z	LOGITECH	17	2299192	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	31.85	Yes
505	1	8/19/2021	NJ	AU195L	Logitech	19	2299193	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.42	Yes
506	2	8/19/2021	NJ	AW690L	Logitech	3	2299194	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.51	Yes
507	3	8/19/2021	NJ	AW548R	AVN	44	2299195	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	28.86	Yes
508	4	8/19/2021	NJ	AU808Y	Logitech	33	2299196	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	30.31	Yes
509	5	8/19/2021	NJ	AU808Y	Logitech	33	2299197	WC04	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	20.20	Yes
510	1	9/7/2021	NJ	AU970Z	Logitech	17	2403320	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	20.59	Yes
511	1	9/8/2021	NJ	AT878N	D&A	18	2313498	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	23.03	Yes
512	1	9/10/2021	NJ	AW858D	D&A	343	2299198	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	25.07	Yes
513	2	9/10/2021	NJ	AU707U	D&A	43	2299199	WC03	Non-Hazardous Historic Fill	Clean Earth of Bethlehem	20	30	27.26	Yes

Table 4
Final Engineering Report
Remaining Soil Sample Analytical Results Summary

414 Gerard Avenue
Bronx, New York
BCP Site No.: C203106
Langan Project Number: 170488401

Table with columns: Analyte, CAS Number, NYSDEC Part 375 Unrestricted Use Commercial SCOs, NYSDEC Part 375 Restricted Use Residential SCOs, Location, Sample Name, Sample Date, Sample Depth, Unit, and 13 sampling locations (414_EP01 to 414_EP09, SO_DUP01_072221). Rows include Pesticides, Polychlorinated Biphenyls, Metals, and General Chemistry.

Table 5
Final Engineering Report
QA/QC Analytical Results Summary

414 Gerard Avenue
Bronx, New York
BCP Site No.: C203106
Langan Project Number: 170488401

Analyte	CAS Number	Sample ID	SO_FB01_072221	TB01_072221
		Sample Date	7/22/2021	7/22/2021
		Sample Type	FB	TB
		Unit	Result	Result
Volatile Organic Compounds				
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	<0.2 U	<0.2 U
1,1,1-Trichloroethane	71-55-6	ug/l	<0.2 U	<0.2 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/l	<0.2 U	<0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	ug/l	<0.2 U	<0.2 U
1,1,2-Trichloroethane	79-00-5	ug/l	<0.2 U	<0.2 U
1,1-Dichloroethane	75-34-3	ug/l	<0.2 U	<0.2 U
1,1-Dichloroethene	75-35-4	ug/l	<0.2 U	<0.2 U
1,2,3-Trichlorobenzene	87-61-6	ug/l	<0.2 U	<0.2 U
1,2,3-Trichloropropane	96-18-4	ug/l	<0.2 U	<0.2 U
1,2,4-Trichlorobenzene	120-82-1	ug/l	<0.2 U	<0.2 U
1,2,4-Trimethylbenzene	95-63-6	ug/l	<0.2 U	<0.2 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/l	<0.2 U	<0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/l	<0.2 U	<0.2 U
1,2-Dichlorobenzene	95-50-1	ug/l	<0.2 U	<0.2 U
1,2-Dichloroethane	107-06-2	ug/l	<0.2 U	<0.2 U
1,2-Dichloropropane	78-87-5	ug/l	<0.2 U	<0.2 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/l	<0.2 U	<0.2 U
1,3-Dichlorobenzene	541-73-1	ug/l	<0.2 U	<0.2 U
1,4-Dichlorobenzene	106-46-7	ug/l	<0.2 U	<0.2 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/l	<40 U	<40 U
2-Hexanone (MBK)	591-78-6	ug/l	<0.2 U	<0.2 U
Acetone	67-64-1	ug/l	<1 U	<1 U
Acrolein	107-02-8	ug/l	<0.2 U	<0.2 U
Acrylonitrile	107-13-1	ug/l	<0.2 U	<0.2 U
Benzene	71-43-2	ug/l	<0.2 U	<0.2 U
Bromochloromethane	74-97-5	ug/l	<0.2 U	<0.2 U
Bromodichloromethane	75-27-4	ug/l	<0.2 U	<0.2 U
Bromoform	75-25-2	ug/l	<0.2 U	<0.2 U
Bromomethane	74-83-9	ug/l	<0.2 U	<0.2 U
Carbon Disulfide	75-15-0	ug/l	<0.2 U	<0.2 U
Carbon Tetrachloride	56-23-5	ug/l	<0.2 U	<0.2 U
Chlorobenzene	108-90-7	ug/l	<0.2 U	<0.2 U
Chloroethane	75-00-3	ug/l	<0.2 U	<0.2 U
Chloroform	67-66-3	ug/l	<0.2 U	<0.2 U
Chloromethane	74-87-3	ug/l	<0.2 U	<0.2 U
Cis-1,2-Dichloroethene	156-59-2	ug/l	<0.2 U	<0.2 U
Cis-1,3-Dichloropropene	10061-01-5	ug/l	<0.2 U	<0.2 U
Cyclohexane	110-82-7	ug/l	<0.2 U	<0.2 U
Dibromochloromethane	124-48-1	ug/l	<0.2 U	<0.2 U
Dibromomethane	74-95-3	ug/l	<0.2 U	<0.2 U
Dichlorodifluoromethane	75-71-8	ug/l	<0.2 U	<0.2 U
Ethylbenzene	100-41-4	ug/l	<0.2 U	<0.2 U
Hexachlorobutadiene	87-68-3	ug/l	<0.2 U	<0.2 U
Isopropylbenzene (Cumene)	98-82-8	ug/l	<0.2 U	<0.2 U
M,P-Xylene	179601-23-1	ug/l	<0.5 U	<0.5 U
Methyl Acetate	79-20-9	ug/l	<0.2 U	<0.2 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/l	<0.2 U	<0.2 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	ug/l	<0.2 U	<0.2 U
Methylcyclohexane	108-87-2	ug/l	<0.2 U	<0.2 U
Methylene Chloride	75-09-2	ug/l	4.61	<1 U
n-Butylbenzene	104-51-8	ug/l	<0.2 U	<0.2 U
n-Propylbenzene	103-65-1	ug/l	<0.2 U	<0.2 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/l	<0.2 U	<0.2 U
p-Cymene (p-Isopropyltoluene)	CYMP	ug/l	<0.2 U	<0.2 U
Sec-Butylbenzene	135-98-8	ug/l	<0.2 U	<0.2 U
Styrene	100-42-5	ug/l	<0.2 U	<0.2 U
T-Butylbenzene	98-06-6	ug/l	<0.2 U	<0.2 U
Tert-Butyl Alcohol	75-65-0	ug/l	<0.5 U	<0.5 U
Tert-Butyl Methyl Ether	1634-04-4	ug/l	<0.2 U	<0.2 U
Tetrachloroethene (PCE)	127-18-4	ug/l	<0.2 U	<0.2 U
Toluene	108-88-3	ug/l	<0.2 U	<0.2 U
Total Xylenes	1330-20-7	ug/l	<0.6 U	<0.6 U
Trans-1,2-Dichloroethene	156-60-5	ug/l	<0.2 U	<0.2 U
Trans-1,3-Dichloropropene	10061-02-6	ug/l	<0.2 U	<0.2 U
Trichloroethene (TCE)	79-01-6	ug/l	<0.2 U	<0.2 U
Trichlorofluoromethane	75-69-4	ug/l	<0.2 U	<0.2 U
Vinyl Chloride	75-01-4	ug/l	<0.2 U	<0.2 U

Table 5
Final Engineering Report
QA/QC Analytical Results Summary

414 Gerard Avenue
Bronx, New York
BCP Site No.: C203106
Langan Project Number: 170488401

Analyte	CAS Number	Sample ID	SO_FB01_072221	TB01_072221
		Sample Date	7/22/2021	7/22/2021
		Sample Type	FB	TB
		Unit	Result	Result
Semivolatile Organic Compounds				
1,2,4,5-Tetrachlorobenzene	95-94-3	ug/l	<2.63 U	NA
1,2-Diphenylhydrazine	122-66-7	ug/l	<2.63 U	NA
1,4-Dioxane (P-Dioxane)	123-91-1	ug/l	<0.3 U	NA
2,3,4,6-Tetrachlorophenol	58-90-2	ug/l	<2.63 U	NA
2,4,5-Trichlorophenol	95-95-4	ug/l	<2.63 U	NA
2,4,6-Trichlorophenol	88-06-2	ug/l	<2.63 U	NA
2,4-Dichlorophenol	120-83-2	ug/l	<2.63 U	NA
2,4-Dimethylphenol	105-67-9	ug/l	<2.63 U	NA
2,4-Dinitrophenol	51-28-5	ug/l	<2.63 U	NA
2,4-Dinitrotoluene	121-14-2	ug/l	<2.63 U	NA
2,6-Dinitrotoluene	606-20-2	ug/l	<2.63 U	NA
2-Chloronaphthalene	91-58-7	ug/l	<2.63 U	NA
2-Chlorophenol	95-57-8	ug/l	<2.63 U	NA
2-Methylnaphthalene	91-57-6	ug/l	<2.63 U	NA
2-Methylphenol (o-Cresol)	95-48-7	ug/l	<2.63 U	NA
2-Nitroaniline	88-74-4	ug/l	<2.63 U	NA
2-Nitrophenol	88-75-5	ug/l	<2.63 U	NA
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	ug/l	<2.63 U	NA
3,3'-Dichlorobenzidine	91-94-1	ug/l	<2.63 U	NA
3-Nitroaniline	99-09-2	ug/l	<2.63 U	NA
4,6-Dinitro-2-Methylphenol	534-52-1	ug/l	<2.63 U	NA
4-Bromophenyl Phenyl Ether	101-55-3	ug/l	<2.63 U	NA
4-Chloro-3-Methylphenol	59-50-7	ug/l	<2.63 U	NA
4-Chloroaniline	106-47-8	ug/l	<2.63 U	NA
4-Chlorophenyl Phenyl Ether	7005-72-3	ug/l	<2.63 U	NA
4-Nitroaniline	100-01-6	ug/l	<2.63 U	NA
4-Nitrophenol	100-02-7	ug/l	<5.26 U	NA
Acenaphthene	83-32-9	ug/l	<0.0526 U	NA
Acenaphthylene	208-96-8	ug/l	<0.0526 U	NA
Acetophenone	98-86-2	ug/l	<2.63 U	NA
Aniline (Phenylamine, Aminobenzene)	62-53-3	ug/l	<2.63 U	NA
Anthracene	120-12-7	ug/l	<0.0526 U	NA
Atrazine	1912-24-9	ug/l	<0.526 U	NA
Benzaldehyde	100-52-7	ug/l	<2.63 U	NA
Benzidine	92-87-5	ug/l	<5.26 U	NA
Benzo(a)anthracene	56-55-3	ug/l	<0.0526 U	NA
Benzo(a)pyrene	50-32-8	ug/l	<0.0526 U	NA
Benzo(b)fluoranthene	205-99-2	ug/l	<0.0526 U	NA
Benzo(g,h,i)Perylene	191-24-2	ug/l	<0.0526 U	NA
Benzo(k)fluoranthene	207-08-9	ug/l	<0.0526 U	NA
Benzoic Acid	65-85-0	ug/l	<2.63 U	NA
Benzyl Alcohol	100-51-6	ug/l	<2.63 U	NA
Benzyl Butyl Phthalate	85-68-7	ug/l	<2.63 U	NA
Biphenyl (Diphenyl)	92-52-4	ug/l	<2.63 U	NA
Bis(2-chloroethoxy) methane	111-91-1	ug/l	<2.63 U	NA
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	ug/l	<1.05 U	NA
Bis(2-chloroisopropyl) ether	108-60-1	ug/l	<2.63 U	NA
Bis(2-ethylhexyl) phthalate	117-81-7	ug/l	16.5 D	NA
Caprolactam	105-60-2	ug/l	<2.63 U	NA
Carbazole	86-74-8	ug/l	<2.63 U	NA
Chrysene	218-01-9	ug/l	<0.0526 U	NA
Dibenz(a,h)anthracene	53-70-3	ug/l	<0.0526 U	NA
Dibenzofuran	132-64-9	ug/l	<2.63 U	NA
Dibutyl phthalate	84-74-2	ug/l	<2.63 U	NA
Diethyl phthalate	84-66-2	ug/l	<2.63 U	NA
Dimethyl phthalate	131-11-3	ug/l	<2.63 U	NA
Dioctyl phthalate	117-84-0	ug/l	<2.63 U	NA
Diphenylamine	122-39-4	ug/l	<2.63 U	NA
Fluoranthene	206-44-0	ug/l	<0.0526 U	NA
Fluorene	86-73-7	ug/l	<0.0526 U	NA
Hexachlorobenzene	118-74-1	ug/l	<0.0211 U	NA
Hexachlorobutadiene	87-68-3	ug/l	<0.526 U	NA
Hexachlorocyclopentadiene	77-47-4	ug/l	<5.26 U	NA
Hexachloroethane	67-72-1	ug/l	<0.526 U	NA
Indeno(1,2,3-cd)pyrene	193-39-5	ug/l	<0.0526 U	NA
Isophorone	78-59-1	ug/l	<2.63 U	NA
Naphthalene	91-20-3	ug/l	0.0526	NA
Nitrobenzene	98-95-3	ug/l	<0.263 U	NA
n-Nitrosodimethylamine	62-75-9	ug/l	<0.526 U	NA
n-Nitrosodi-N-Propylamine	621-64-7	ug/l	<2.63 U	NA
n-Nitrosodiphenylamine	86-30-6	ug/l	<2.63 U	NA
Pentachlorophenol	87-86-5	ug/l	<0.263 U	NA
Phenanthrene	85-01-8	ug/l	<0.0526 U	NA
Phenol	108-95-2	ug/l	<2.63 U	NA
Pyrene	129-00-0	ug/l	0.0842	NA
Pyridine	110-86-1	ug/l	<2.63 U	NA

Table 5
Final Engineering Report
QA/QC Analytical Results Summary

414 Gerard Avenue
Bronx, New York
BCP Site No.: C203106
Langan Project Number: 170488401

Analyte	CAS Number	Sample ID Sample Date Sample Type Unit	SO_FB01_072221	TB01_072221
			7/22/2021	7/22/2021
			FB	TB
			Result	Result
Pesticides				
4,4'-DDD	72-54-8	ug/l	<0.0041 U	NA
4,4'-DDE	72-55-9	ug/l	<0.0041 U	NA
4,4'-DDT	50-29-3	ug/l	<0.0041 U	NA
Aldrin	309-00-2	ug/l	<0.0041 U	NA
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	ug/l	<0.0041 U	NA
Alpha Chlordane	5103-71-9	ug/l	<0.0041 U	NA
Alpha Endosulfan	959-98-8	ug/l	<0.0041 U	NA
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	ug/l	<0.0041 U	NA
Beta Endosulfan	33213-65-9	ug/l	<0.0041 U	NA
Chlordane (alpha and gamma)	57-74-9	ug/l	<0.205 U	NA
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	ug/l	<0.0041 U	NA
Dieldrin	60-57-1	ug/l	<0.00205 U	NA
Endosulfan Sulfate	1031-07-8	ug/l	<0.0041 U	NA
Endrin	72-20-8	ug/l	<0.0041 U	NA
Endrin Aldehyde	7421-93-4	ug/l	<0.0103 U	NA
Endrin Ketone	53494-70-5	ug/l	<0.0103 U	NA
Gamma Bhc (Lindane)	58-89-9	ug/l	<0.0041 U	NA
Gamma-Chlordane	5566-34-7	ug/l	<0.0103 U	NA
Heptachlor	76-44-8	ug/l	<0.0041 U	NA
Heptachlor Epoxide	1024-57-3	ug/l	<0.0041 U	NA
Methoxychlor	72-43-5	ug/l	<0.0041 U	NA
Toxaphene	8001-35-2	ug/l	<0.103 U	NA
Polychlorinated Biphenyls				
PCB-1016 (Aroclor 1016)	12674-11-2	ug/l	<0.0513 U	NA
PCB-1221 (Aroclor 1221)	11104-28-2	ug/l	<0.0513 U	NA
PCB-1232 (Aroclor 1232)	11141-16-5	ug/l	<0.0513 U	NA
PCB-1242 (Aroclor 1242)	53469-21-9	ug/l	<0.0513 U	NA
PCB-1248 (Aroclor 1248)	12672-29-6	ug/l	<0.0513 U	NA
PCB-1254 (Aroclor 1254)	11097-69-1	ug/l	<0.0513 U	NA
PCB-1260 (Aroclor 1260)	11096-82-5	ug/l	<0.0513 U	NA
PCB-1262 (Aroclor 1262)	37324-23-5	ug/l	<0.0513 U	NA
PCB-1268 (Aroclor 1268)	11100-14-4	ug/l	<0.0513 U	NA
Total PCBs	1336-36-3	ug/l	<0.0513 U	NA
Metals				
Aluminum	7429-90-5	ug/l	111	NA
Antimony	7440-36-0	ug/l	<1.11 U	NA
Arsenic	7440-38-2	ug/l	<1.11 U	NA
Barium	7440-39-3	ug/l	<27.8 U	NA
Beryllium	7440-41-7	ug/l	<0.333 U	NA
Cadmium	7440-43-9	ug/l	<0.556 U	NA
Calcium	7440-70-2	ug/l	173	NA
Chromium, Hexavalent	18540-29-9	ug/l	<10 U	NA
Chromium, Total	7440-47-3	ug/l	<5.56 U	NA
Chromium, Trivalent	16065-83-1	ug/l	<10 U	NA
Cobalt	7440-48-4	ug/l	<4.44 U	NA
Copper	7440-50-8	ug/l	<22.2 U	NA
Cyanide	57-12-5	ug/l	<10 U	NA
Iron	7439-89-6	ug/l	327	NA
Lead	7439-92-1	ug/l	<5.56 U	NA
Magnesium	7439-95-4	ug/l	77.1	NA
Manganese	7439-96-5	ug/l	<5.56 U	NA
Mercury	7439-97-6	ug/l	<0.2 U	NA
Nickel	7440-02-0	ug/l	<11.1 U	NA
Potassium	7440-09-7	ug/l	201 B	NA
Selenium	7782-49-2	ug/l	<1.11 U	NA
Silver	7440-22-4	ug/l	<5.56 U	NA
Sodium	7440-23-5	ug/l	<556 U	NA
Thallium	7440-28-0	ug/l	<1.11 U	NA
Vanadium	7440-62-2	ug/l	<11.1 U	NA
Zinc	7440-66-6	ug/l	<27.8 U	NA
Perfluorooctanoic Acid				
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	ug/l	<0.00192 U	NA
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	ug/l	<0.00192 U	NA
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	ug/l	<0.00192 U	NA
Perfluorobutanoic Acid (PFBA)	375-22-4	ug/l	<0.00192 U	NA
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	ug/l	<0.00192 U	NA
Perfluorodecanoic Acid (PFDA)	335-76-2	ug/l	<0.00192 U	NA
Perfluorododecanoic Acid (PFDoA)	307-55-1	ug/l	<0.00192 U	NA
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	ug/l	<0.00192 U	NA
Perfluoroheptanoic acid (PFHpA)	375-85-9	ug/l	<0.00192 U	NA
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	ug/l	<0.00192 U	NA
Perfluorohexanoic Acid (PFHxA)	307-24-4	ug/l	<0.00192 U	NA
Perfluorononanoic Acid (PFNA)	375-95-1	ug/l	<0.00192 U	NA
Perfluorooctanesulfonamide (FOSA)	754-91-6	ug/l	<0.00192 U	NA
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	ug/l	<0.00192 U	NA
Perfluorooctanoic Acid (PFDA)	335-67-1	ug/l	<0.00192 U	NA
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ug/l	<0.00192 U	NA
Perfluorotetradecanoic Acid (PFTA)	376-06-7	ug/l	<0.00192 U	NA
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	ug/l	<0.00192 U	NA
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ug/l	<0.00192 U	NA
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS)	39108-34-4	ug/l	<0.00192 U	NA
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS)	27619-97-2	ug/l	<0.00481 U	NA

Table 5
Final Engineering Report
QA/QC Analytical Results Summary

414 Gerard Avenue
Bronx, New York
BCP Site No.: C203106
Langan Project Number: 170488401

Notes:

FB = Field Blank
TB = Trip Blank
CAS = Chemical Abstract Service
NS = No standard
µg/L = microgram per liter
NA = Not analyzed
RL = Reporting limit
<RL = Not detected
QA/QC = Quality Assurance/Quality Control

Qualifiers: (when applicable)

D = The concentration reported is a result of a diluted sample.
U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
B = The analyte was found in the associated analysis batch blank.

**Table 6
Imported Stone Summary**

414 Gerard Avenue
Bronx, New York
BCP Site No.: C203106
Langan Project No.: 170488401

Import Summary:			Loads	Tons	Job #: 170488401				
New York Sand and Stone - Eastern Concrete Wantage Quarry			1	20.23					
Tilcon-Mt. Hope Quarry Quarry (3/4-inch Stone)			20	499.07					
Total:			21	519.30					
Load No. & Date		Transporter Info		Material Info		Origin	Volume/Weight		
Load No.	Date	State	Truck Company	Material Type	Ticket No.	Origin	Quantity (cy)	Ticket Weight (tons)	
1	1/19/2021	NY	AARCO	3/4-inch Stone	53090663	New York Sand and Stone - Eastern Concrete Wantage Quarry	20	20.23	
2	7/29/2021	NJ	Mendez	3/4-inch Stone	41843217	Tilcon-Mt. Hope Quarry	20	24.05	
3	8/2/2021	NJ	Mendez	3/4-inch Stone	41845095	Tilcon-Mt. Hope Quarry	20	25.11	
4	8/2/2021	NJ	Mendez	3/4-inch Stone	41845106	Tilcon-Mt. Hope Quarry	20	25.24	
5	8/2/2021	NJ	Mendez	3/4-inch Stone	41845808	Tilcon-Mt. Hope Quarry	20	24.79	
6	8/2/2021	NJ	Mendez	3/4-inch Stone	41845099	Tilcon-Mt. Hope Quarry	20	25.82	
7	8/7/2021	NJ	Mendez	3/4-inch Stone	41848046	Tilcon-Mt. Hope Quarry	20	24.84	
8	8/7/2021	NJ	Mendez	3/4-inch Stone	41848061	Tilcon-Mt. Hope Quarry	20	25.61	
9	8/7/2021	NJ	Mendez	3/4-inch Stone	41848262	Tilcon-Mt. Hope Quarry	20	25.38	
10	8/9/2021	NJ	Mendez	3/4-inch Stone	41848367	Tilcon-Mt. Hope Quarry	20	25.51	
11	8/9/2021	NJ	Mendez	3/4-inch Stone	41848357	Tilcon-Mt. Hope Quarry	20	25.09	
12	8/16/2021	NJ	Mendez	3/4-inch Stone	41852357	Tilcon-Mt. Hope Quarry	20	23.45	
13	8/16/2021	NJ	Mendez	3/4-inch Stone	41852464	Tilcon-Mt. Hope Quarry	20	24.32	
14	8/16/2021	NJ	Mendez	3/4-inch Stone	41852362	Tilcon-Mt. Hope Quarry	20	24.63	
15	8/16/2021	NJ	Mendez	3/4-inch Stone	41852420	Tilcon-Mt. Hope Quarry	20	25.75	
16	8/17/2021	NJ	FCB Vendor	3/4-inch Stone	41853078	Tilcon-Mt. Hope Quarry	20	25.45	
17	8/17/2021	NJ	FCB Vendor	3/4-inch Stone	41853092	Tilcon-Mt. Hope Quarry	20	24.8	
18	8/17/2021	NJ	FCB Vendor	3/4-inch Stone	41853100	Tilcon-Mt. Hope Quarry	20	25.23	
19	8/18/2021	NJ	FCB Vendor	3/4-inch Stone	41853981	Tilcon-Mt. Hope Quarry	20	25.02	
20	8/19/2021	NJ	Mendez	3/4-inch Stone	41854429	Tilcon-Mt. Hope Quarry	20	24.98	
21	9/10/2021	NJ	FCB Vendor	3/4-inch Stone	41864666	Tilcon-Mt. Hope Quarry	20	24.00	

APPENDIX A
NYSDEC RAWP Approval, Decision
Document and Correspondence

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau B

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November 29, 2018

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125 East 144 Street Holdings LLC
500 Frank W Burr Boulevard #47
Teaneck, NJ 07666

Re: Former Rocket Jewelry Box Site
Site ID No. C203106
Bronx, New York
Remedial Work Plan & Decision Document

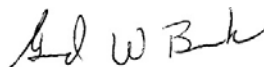
Dear Mr. Mandel:

The New York State Department of Environmental Conservation (Department) and the New York State Department of Health (NYSDOH) have reviewed the Remedial Action Work Plan (RAWP) for the Former Rocket Jewelry Box site dated May 2018 and prepared by Langan, on behalf of 125 East 144 Street Holdings LLC. The RAWP is hereby approved. Please ensure that a copy of the approved RAWP is placed in the document repository. The draft plan should be removed.

Attached is a copy of the Department's Decision Document for the site. The remedy is to be implemented in accordance with this Decision Document. Please ensure that a copy of the Decision Document is placed in the document repository.

Please contact the Department's Project Manager, Nathan Freeman, at 518-402-9767 or nathan.freeman@dec.ny.gov at your earliest convenience to discuss next steps. Please recall the Department requires seven days' notice prior to the start of field work.

Sincerely,



Gerard Burke, P.E.

Director

Remedial Bureau B

Division of Environmental Remediation



Department of
Environmental
Conservation

Enclosure

ec w/attachments:

Michael Ryan

Gerard Burke

Sally Dewes

Jane O'Connell

Nathan Freeman

Grace Nam

Justin Deming, DOH

Steven Berninger, DOH

Brain Gochenaur, Langan

Julia Leung, Langan

Matt Gokey, matthew.gokey@tax.ny.gov

Matt Culotti, matthew.culotti@tax.ny.gov

Caroline Grattan

From: Caroline Grattan
Sent: Monday, August 23, 2021 12:44 PM
To: Caroline Grattan
Subject: BCP Site - C203106 - Former Rocket Jewelry Site Update

From: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>
Sent: Wednesday, May 13, 2020 1:34 PM
To: Brian Gochenaur <bgochenaur@Langan.com>; Julia Leung <JLeung@Langan.com>
Cc: Dudek, Heidi M (DEC) <heidi.dudek@dec.ny.gov>
Subject: Re: Former Rocket Jewelry Site Update

Hi Brian and Julia,

considering the DD and RAWP allow for the Track 2 cleanup track, nothing additional needs to be done in moving forward with the new development plans.

Please keep me apprised of the schedule as it becomes available.

Thanks Nate

From: Brian Gochenaur <bgochenaur@Langan.com>
Sent: Wednesday, May 13, 2020 7:55 AM
To: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>; Julia Leung <JLeung@Langan.com>
Subject: RE: Former Rocket Jewelry Site Update

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Hi Nathan,

The new development isn't too far off from the former development in terms of excavation. The entire site will be excavated to a minimum depth of 15 feet with deeper excavations going down as deep as 24 feet. The only real difference is we aren't going all the way down to 30 feet to get out soil exceeding Unrestricted Use SCOs because the new design does not include dewatering and a deeper basement like the old one did.

The attached map was prepared for the RAWP we prepared "at risk" in the hopes that 444 Gerard was going to be added to the site (we took out the 444 Gerard excavation from the drawing). This map shows the excavation required to achieve Track 2, but please note as I mentioned before, the site excavation for construction will extend much deeper (We did not prepare a specific excavation plan for construction but could provide a draft of the SOE drawings if needed).

In essence, the excavation will achieve a much higher "clean up" than just the required Track 2. Only a few naturally occurring metals would remain at depths greater than 20 feet below grade. Maybe you could call it Track 1.25 (that's my attempt at humor)

Hope this helps. Please let me know if you have any questions.

Thanks,

Brian Gochenaur, QEP
Senior Project Manager

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From: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>
Sent: Tuesday, May 12, 2020 4:31 PM
To: Julia Leung <JLeung@Langan.com>
Cc: Brian Gochenaur <bgochenaur@Langan.com>
Subject: Re: Former Rocket Jewelry Site Update

Hi Julia,

Sorry I haven't gotten back to you on this, although I have not forgotten. I did look back at the DD and the RAWP.

What kind of change to the excavation deeps and areas will the new redevelopment plan entail? can you provide a figure?

please advise

thanks Nate

From: Julia Leung <JLeung@Langan.com>
Sent: Tuesday, May 12, 2020 4:15 PM
To: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>
Cc: Brian Gochenaur <bgochenaur@Langan.com>
Subject: RE: Former Rocket Jewelry Site Update

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Hi Nathan,

I am just following up on our phone call last week. To recap, we have an approved RAWP for a Track 1 scenario and an old redevelopment plan. The approved RAWP also described an alternative Track 2 scenario that we plan to apply to the new redevelopment plan. Is there anything additional we need to do in order to move forward with the Track 2 remediation?

Thanks!

Julia Leung
Project Engineer

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From: Julia Leung
Sent: Monday, May 04, 2020 2:23 PM
To: 'Freeman, Nathan T (DEC)' <Nathan.Freeman@dec.ny.gov>
Cc: Brian Gochenaur <bgochenaur@Langan.com>
Subject: RE: Former Rocket Jewelry Site Update

Awesome. I'll send an invite for 10am tomorrow. Talk soon!

Julia Leung
Project Engineer

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From: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>
Sent: Monday, May 04, 2020 1:37 PM
To: Julia Leung <JLeung@Langan.com>
Cc: Brian Gochenaur <bgochenaur@Langan.com>
Subject: Re: Former Rocket Jewelry Site Update

Hi Julia,

sure, I am available tomorrow at anytime other than 11 to 11:30 a.m.

Thanks Nate

From: Julia Leung <JLeung@Langan.com>
Sent: Monday, May 4, 2020 11:24 AM
To: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>
Cc: Brian Gochenaur <bgochenaur@Langan.com>
Subject: Former Rocket Jewelry Site Update

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Hi Nathan, hope all is well.

Now that we know the decision on adding 444 Gerard to the BCP, could we get on a call to discuss the project at 414 Gerard and our next steps? Are you free today or tomorrow?

Thanks,
Julia Leung
Project Engineer

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Lamees Esmail

From: Lamees Esmail
Sent: Tuesday, September 14, 2021 10:54 AM
To: Lamees Esmail
Subject: RE: BCP Site - C203106 - Former Rocket Jewelry

From: Brian Gochenaur <bgochenaur@Langan.com>
Sent: Friday, December 11, 2020 9:47 AM
To: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>
Cc: Julia Leung <JLeung@Langan.com>; Berninger, Steven G (HEALTH) <Steven.Berninger@health.ny.gov>
Subject: RE: BCP Site - C203106 - Former Rocket Jewelry

No problem Nathan – Will do! Have a good weekend

Brian Gochenaur, QEP
Senior Project Manager

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From: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>
Sent: Friday, December 11, 2020 9:34 AM
To: Brian Gochenaur <bgochenaur@Langan.com>
Cc: Julia Leung <JLeung@Langan.com>; Berninger, Steven G (HEALTH) <Steven.Berninger@health.ny.gov>
Subject: Re: BCP Site - C203106 - Former Rocket Jewelry

thanks Brian, please keep me apprised of schedule as it becomes available for the February remedial action start.

Thanks Nate

From: Brian Gochenaur <bgochenaur@Langan.com>
Sent: Thursday, December 10, 2020 3:42 PM
To: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>
Cc: Julia Leung <JLeung@Langan.com>
Subject: BCP Site - C203106 - Former Rocket Jewelry

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Hi Nathan,

It was nice speaking with you yesterday. As discussed there was some miscommunication on the developer side and tank removal took place without Langan oversight. The communication channel within the developer's organization have been re-tooled so this will not happen again.

Essentially, the contractor (AARCO Environmental - an FDNY licensed tank contractor) mobilized to the site and unearthed a 3,000 gallon UST (which had been incorrectly registered as a vaulted 3,000-gallon AST). When the developer realized their mistake, they notified Langan; however, the tank had already been excavated. Once Langan was notified, we requested that the contractor stop work, and Langan immediately went to the site to document site conditions. When we arrived at the site, the 3,000-gallon UST was staged on top of poly sheeting. The UST was intact with no holes. We were informed by AARCO that the UST contained about 100 gallons of oily liquid and sludge. AARCO removed the contents of the UST via vacuum truck, rinsed the inside of the UST, and collected the rinsate via a vacuum truck. The contents were disposed of off-site the Dale Transfer facility located in West Babylon, NY. Sludge was containerized in a 55-gallon drum. The UST excavation and soil around the UST did not show signs of petroleum impacts (i.e., odors or staining). Excavated soil was stockpiled adjacent to the excavation and covered with poly plastic. Also of note is that it was snowing yesterday so coincidentally CAMP likely would not have been run. No odors or visible dust in the work area was noted.

A daily field report documenting site activities is attached. AARCO will return to the site at a later date to remove the tank piping, cut the tank in preparation for disposal of scrap metals, and backfill the excavation with the stockpiled historic fill and pre-approved imported gravel. Again, this is only temporary to close the hole until the mass excavation of the site begins in February. All of the material surrounding the former tank will be excavated and properly disposed as part of excavation for the building foundation.

Please let me know if you have any questions.

Thanks,

Brian Gochenaur, QEP
Senior Project Manager

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Caroline Grattan

From: Caroline Grattan
Sent: Monday, August 23, 2021 12:38 PM
To: Caroline Grattan
Subject: 414 Gerard - Demarcation Barrier

From: Brian Gochenaur <bgochenaur@Langan.com>
Sent: Wednesday, July 14, 2021 10:02 AM
To: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>
Cc: Kimberly Semon <ksemon@langan.com>; Lamees Esmail <lesmail@langan.com>; Dudek, Heidi M (DEC) <heidi.dudek@dec.ny.gov>; Berninger, Steven G (HEALTH) <Steven.Berninger@health.ny.gov>
Subject: RE: 414 Gerard - Demarcation Barrier

Great – thanks for confirming Nathan. Much appreciated

Brian Gochenaur, QEP
Senior Project Manager

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From: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>
Sent: Wednesday, July 14, 2021 10:01 AM
To: Brian Gochenaur <bgochenaur@Langan.com>
Cc: Kimberly Semon <ksemon@langan.com>; Lamees Esmail <lesmail@langan.com>; Dudek, Heidi M (DEC) <heidi.dudek@dec.ny.gov>; Berninger, Steven G (HEALTH) <Steven.Berninger@health.ny.gov>
Subject: [External] RE: 414 Gerard - Demarcation Barrier

Brain,

That is correct, if we have achieved the SCO in the top 15' of soil or to top of rock, a demarcation layer is not needed for a track 2 cleanup. The SMP should reflect this.

Thanks Nate

From: Brian Gochenaur <bgochenaur@Langan.com>
Sent: Wednesday, July 14, 2021 7:46 AM
To: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>

Cc: Kimberly Semon <ksemon@langan.com>; Lamees Esmail <lesmail@langan.com>

Subject: 414 Gerard - Demarcation Barrier

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Hi Nathan,

As we near the bottom of excavation in a few areas I wanted to reach out to you about protocol. I went back to the RAWP, which you will recall was originally drafted several years ago, and the RAWP calls for a demarcation barrier "consisting of orange snow fence or equivalent material". I think this statement was actually included in error. In my experience, a demarcation layer is sometimes used in a Track 4 cleanup to identify where contamination is left in place, but in this case we'll be achieving the appropriate cleanup track, Either Track 2 or possible even Track 1, and the material left in place will actually be suitable for the intended future use meaning no demarcation would be necessary.

We were not planning to put this snow fencing down since the material below the slab will meet the SCOs and there will be no exposed soil within the site (the entire site is covered with a foundation).

Just wanted to confirm with you that an orange snow fence beneath the foundation is not actually necessary and that the foundation itself is a sufficient barrier (not considered a CAP in a Track 1 or 2) and will be noted in the SMP.

Let us know if you'd like to discuss.

Thanks,

Brian Gochenaur, QEP
Senior Project Manager

LANGAN

Direct: 212.479.5479

Mobile: 347.320.2756

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Caroline Grattan

From: Caroline Grattan
Sent: Monday, August 30, 2021 2:23 PM
To: Caroline Grattan
Subject: FW: Former Rocket Jewelry Box Site - Project Update

From: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>
Sent: Monday, August 23, 2021 9:35 AM
To: Kimberly Semon <ksemon@langan.com>
Cc: Berninger, Steven G (HEALTH) <Steven.Berninger@health.ny.gov>; Brian Gochenaur <bgochenaur@Langan.com>;
Lamees Esmail <lesmail@langan.com>
Subject: [External] RE: Former Rocket Jewelry Box Site - Project Update

Hi Kim,

DEC and DOH agree with discounting CAMP monitoring at this time.

Thanks Nate

From: Kimberly Semon <ksemon@langan.com>
Sent: Thursday, August 19, 2021 4:20 PM
To: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>
Cc: Berninger, Steven G (HEALTH) <Steven.Berninger@health.ny.gov>; Brian Gochenaur <bgochenaur@Langan.com>;
Lamees Esmail <lesmail@langan.com>
Subject: Former Rocket Jewelry Box Site - Project Update

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Good afternoon Nate,

As of today we have received analytical data for all of our confirmation endpoints, indicating that the site has achieved the Track 2 cleanup objectives. Additionally, the majority of the site is covered in a concrete rat slab with the exception of a small 15-foot by 3-foot area that will be poured tomorrow or Monday. Intrusive work including export of fill/soil and import of stone for the site foundation is also complete. We would like to request demobilizing CAMP at this time. Please let us know if this is acceptable.

Thank you!

Kim

Kimberly Semon, PE
Project Manager

LANGAN

Direct: 212.479.5486
Mobile: 631.338.2036

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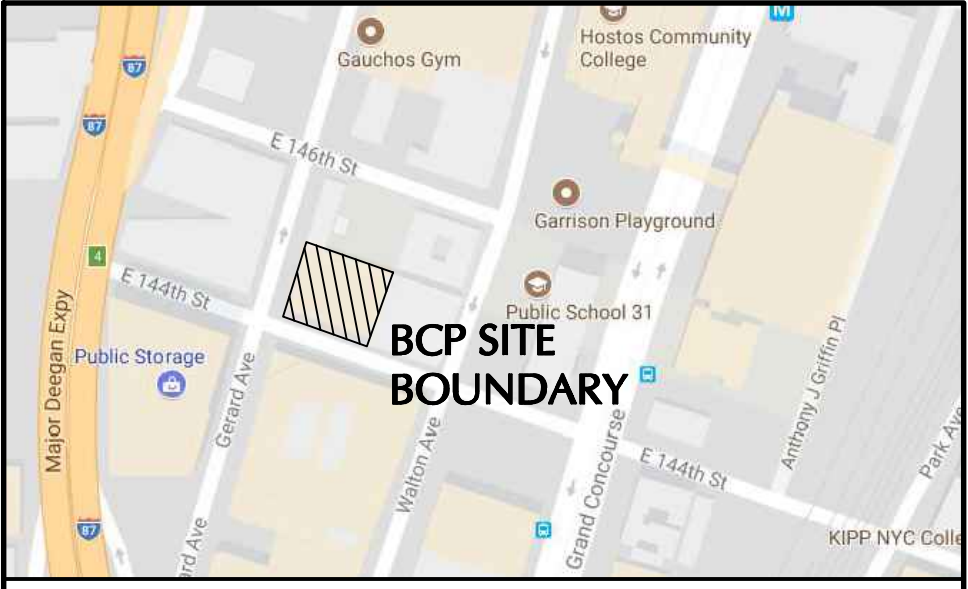
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APPENDIX B
Metes and Bounds



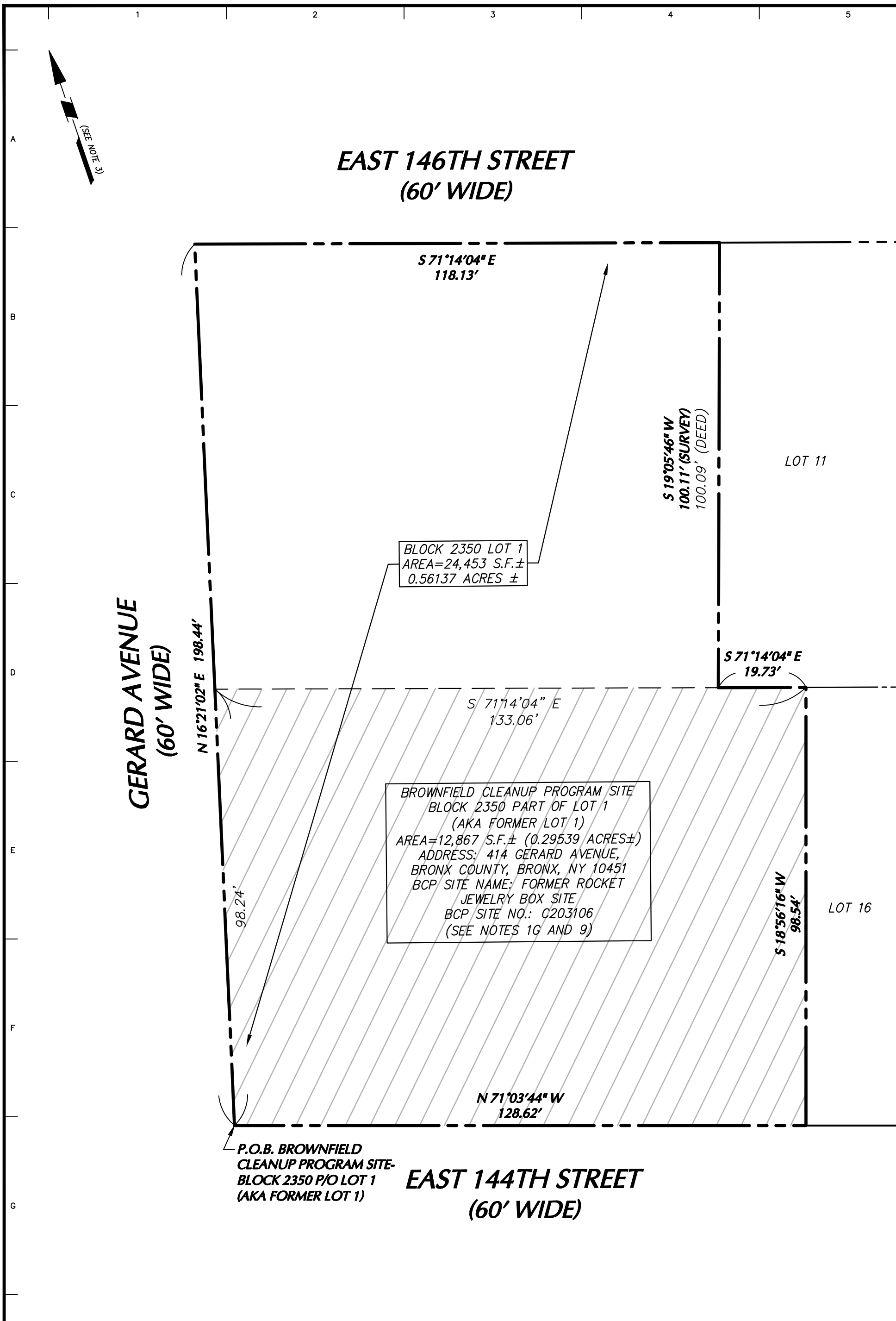
PROJECT LOCATION MAP
SCALE: NOT TO SCALE
SOURCE: GOOGLE MAPS

SURVEY DESCRIPTION
BROWNFIELD CLEANUP PROGRAM SITE
& BLOCK 2350 FORMER LOT 1

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, SITUATE, LYING AND BEING IN THE BOROUGH AND COUNTY OF BRONX, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:
BEGINNING AT THE CORNER FORMED BY THE INTERSECTION OF THE NORTHERLY SIDE OF EAST 144TH STREET WITH THE EASTERLY SIDE OF GERARD AVENUE;
THENCE NORTHERLY ALONG SAID EASTERLY SIDE OF GERARD AVENUE, NORTH 16 DEGREES 21' 02" EAST 98.24 FEET TO A POINT;
THENCE SOUTH 71 DEGREES 14' 04" EAST 133.06 FEET TO A POINT;
THENCE SOUTH 18 DEGREES 56' 16" WEST 98.54 FEET TO THE AFOREMENTIONED NORTHERLY SIDE OF EAST 144TH STREET;
THENCE WESTERLY ALONG SAID NORTHERLY SIDE OF EAST 144TH STREET, NORTH 71 DEGREES 03' 44" WEST 128.62 FEET TO THE POINT OR PLACE OF BEGINNING.
ENCOMPASSING AN AREA OF 0.29539 ACRES, MORE OR LESS.

LEGEND (NOT SHOWN TO SCALE)

P.O.B.	—	POINT OF BEGINNING
S.F.	—	SQUARE FEET
AKA	—	ALSO KNOWN AS
P/O	—	PART OF
BCP	—	BROWNFIELD CLEANUP PROGRAM
N	—	NORTH
S	—	SOUTH
W	—	WEST
E	—	EAST
—	—	PROPERTY LINE
—	—	RIGHT-OF-WAY LINE
▨	—	BCP SITE



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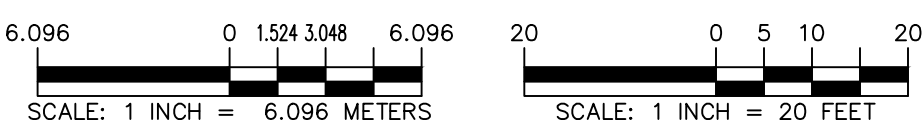
- THIS SURVEY IS BASED UPON EXISTING PHYSICAL CONDITIONS FOUND AT THE SUBJECT SITE, AND THE FOLLOWING REFERENCES:
 - CURRENT NYC DEPARTMENT OF FINANCE TAX MAP FOR BLOCK 2350 IN THE BRONX, DATED 03/24/21 10:27:27.
 - BOROUGH OF BRONX, RECORD MAP SECTION 7.
 - BOROUGH OF BRONX, GRADE MAP SECTION 7.
 - "ALTA/NSPS LAND TITLE SURVEY, 414 GERARD AVENUE, 444 GERARD AVENUE", BY LANGAN, PROJECT NO. 170488401, DRAWING NO. VL101, DATED 03/29/19, LAST REVISED 12/10/20.
 - CRFN: 202100004640, RECORDED/FILED 01/06/21 14:48 [DEED- BLOCK 2350 FORMER LOT 1]
 - CRFN: 2012000300302, RECORDED/FILED 07/31/12 10:12 [DEED- BLOCK 2350 FORMER LOT 5]
 - "NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION BROWNFIELD CLEANUP PROGRAM, BROWNFIELD SITE CLEANUP AGREEMENT, INDEX NO. C203106-02-18, FORMER ROCKET JEWELRY BOX SITE", DEC SITE NO.: C203106, SIGNED AND DATED 03/26/18 BY MICHAEL J. RYAN, P.E., DIRECTOR, DIVISION OF ENVIRONMENTAL REMEDIATION.
 - "DEG EASEMENT SURVEY, 414 GERARD AVENUE, BRONX COUNTY, BRONX, NY 10451", BY LANGAN, PROJECT NO. 170488401, DRAWING NO. DEC101, DATED 06/04/21.
- THE SURVEYED PROPERTY IS SUBJECT BUT NOT LIMITED TO THE FOLLOWING FACTS AS REVEALED BY THE HEREON REFERENCED INFORMATION. THE INFORMATION SHOWN HEREON DOES NOT CONSTITUTE A TITLE SEARCH BY THE SURVEYOR. ALL INFORMATION THAT MAY AFFECT THE QUALITY OF TITLE TO BOTH THE SUBJECT AND ADJOINING PARCELS SHOULD BE VERIFIED BY AN ACCURATE AND CURRENT TITLE REPORT.
- THE MERIDIAN OF THIS SURVEY IS REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM NYLI NAD83 AS ESTABLISHED BY GPS METHODS.
- STREET NAMES, R.O.W. WIDTHS, BLOCK, AND LOT NUMBERS AS PER MAPS REFERENCED IN NOTES 1A, 1B, 1D, AND 1H.
- OFFSETS (IF SHOWN) ARE FOR SURVEY REFERENCES ONLY AND ARE NOT TO BE USED IN CONSTRUCTION OF ANY TYPE.
- WETLANDS, ENVIRONMENTAL AND/OR HAZARDOUS MATERIALS LOCATION, IF ANY, NOT COVERED UNDER THIS CONTRACT.
- UNLESS SPECIFICALLY NOTED HEREON, STORM AND SANITARY SEWER INFORMATION (INCLUDING PIPE INVERT, PIPE MATERIAL, AND PIPE SIZE) WAS OBSERVED AND MEASURED AT FIELD LOCATED STRUCTURES (MANHOLES/CATCH BASINS, ETC.). CONDITIONS CAN VARY FROM THOSE ENCOUNTERED AT THE TIMES WHEN AND THE LOCATIONS WHERE DATA WAS OBTAINED. DESPITE MEETING THE REQUIRED STANDARD OF CARE THE SURVEYOR CANNOT AND DOES NOT WARRANT THAT PIPE MATERIAL AND/OR PIPE SIZE THROUGHOUT THE PIPE RUN ARE THE SAME AS THOSE OBSERVED AT EACH STRUCTURE, OR THAT THE PIPE RUN IS STRAIGHT BETWEEN THE LOCATED STRUCTURES.

ADDITIONAL UTILITY (WATER, GAS, ELECTRIC, ETC.) DATA MAY BE SHOWN FROM FIELD LOCATED SURFACE MARKINGS (BY OTHERS), EXISTING STRUCTURES, AND/OR FROM EXISTING DRAWINGS.

UNLESS SPECIFICALLY NOTED HEREON THE SURVEYOR HAS NOT EXCAVATED TO PHYSICALLY LOCATE THE UNDERGROUND UTILITIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE SHOWN UNDERGROUND UTILITIES ARE EITHER IN SERVICE, ABANDONED OR SUITABLE FOR USE, NOR ARE IN THE EXACT LOCATION OR CONFIGURATION INDICATED HEREON.

PRIOR TO ANY DESIGN OR CONSTRUCTION THE PROPER UTILITY AGENCIES MUST BE CONTACTED FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATIONS.

UNLESS NOTED BELOW SUPPLEMENTAL DOCUMENTS WERE NOT USED TO COMPILE THE SUBSURFACE UTILITY INFORMATION SHOWN HEREON.
- EASEMENTS AND/OR LIMITING PLANES, IF ANY, ARE NOT SHOWN.
- ADDRESS, BCP SITE NAME, BCP SITE NUMBER, AND PART OF LOT TO BE INCLUDED IN BROWNFIELD CLEANUP SITE SHOWN PER DOCUMENT CITED IN NOTE 1G.
- UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.
- THIS PLAN NOT VALID UNLESS EMBOSSED OR BLUE INK STAMPED WITH THE SEAL OF THE PROFESSIONAL.



"I hereby state that this plan is based on a field survey made by me or under my immediate supervision in accordance with NYSPLS Code of Practice for Land Surveys, and to the best of my professional knowledge, information and belief, and in my professional opinion, correctly represents the conditions found on the date of the field survey at the subject property."

11-09-2021
DATE SIGNED

SIGNATURE: RYAN FISHER
PROFESSIONAL LAND SURVEYOR NY Lic. No. 050784-1

LANGAN
Langan Engineering, Environmental, Surveying,
Landscape Architecture and Geology, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
T: 212.479.5400 F: 212.479.5444 www.langan.com

Project
**414 GERARD AVENUE,
BRONX COUNTY, BRONX, NY 10451
BCP SITE NAME: FORMER ROCKET JEWELRY BOX SITE
BCP SITE NO.: C203106
BLOCK No. 2350, LOT No. 1
BOROUGH OF BRONX
CITY OF NEW YORK**

BRONX COUNTY NEW YORK

Drawing Title
**BROWNFIELD
CLEANUP PROGRAM
SITE BOUNDARY
SURVEY**

Date	Description	No.
REVISIONS		
Project No.	170488401	
Date	10/19/2021	
Drawn By	LB	
Checked By	PDF	
Project No.	170488401	
Drawing No.	BCP101	
		Sheet 001 of 001

APPENDIX C
Waste Disposal Facility Approval and Permit
Documentation

March 22, 2021
Sent Via e-mail

Michael D. Burke, CHMM
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
21 Penn Plaza
360 West 31st Street, 8th Floor
New York, New York 10001

RE: 414 and 444 Gerard Ave
Bronx, NY
NYSDEC BCP Site No. C203106
NYCOER Site No. 18TMP0367X
BE Approval No.: 213031015

Dear Mr. Burke:

Clean Earth, LLC (CE) is in receipt of a completed application package for the material being generated at 414 and 444 Gerard Ave, Bronx NY for acceptance at the Bethlehem Earth (BE) site. Up to 25,000 cubic yards (37,500 tons) of fill material to be generated from the redevelopment of the site located at 414 and 444 Gerard Ave, Bronx NY has been found acceptable for receipt at BE.

The following information has been reviewed for acceptance at the Bethlehem Site:

- 414 Gerard Avenue Phase 1 Environmental Site Assessment (ESA) prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. dated October 3, 2017,
- 414 Gerard Ave Remedial Investigation Report prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. dated May 29, 2018,
- 414 Gerard Avenue Remedial Action Work Plan prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. dated December 7, 2018,
- 444 Gerard Avenue Phase 1 ESA prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. dated May 2, 2019,
- 444 Gerard Avenue Phase II Environmental Site Assessment prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. dated May 17, 2019,
- 444 Gerard Avenue Supplemental Investigation prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. dated September 2019,
- 414-444 Gerard Avenue Phase 1 ESA prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. dated April 14, 2020,



- 414-444 Gerard Avenue Draft Waste Characterization Report and Laboratory Analytical Reports prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. dated April 24, 2020,
- 444 Gerard Avenue Remedial Action Work Plan-Stipulation list prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. dated October 20, 2020, and
- 414 and 444 Gerard Avenue Soil Disposal Notification prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. dated December 18, 2020.

Soil represented by twenty-five (25) waste classification samples listed below are approved into Bethlehem Earth:

Waste Classification Samples

- | | | |
|--------------------|--------------------|-------------------|
| - WCO1A_COMP_0-6 | - WC04A_COMP_0-5 | - WC07_COMP_0-5 |
| - WC01B_COMP_6-12 | - WC04B_COMP_5-10 | - WC07_COMP_5-12 |
| - WC01N_COMP_12-22 | - WC04N_COMP_10-15 | - WC07_COMP_12-19 |
| - WC02A_COMP_0-6 | - WC05_COMP_0-5 | - WC08_COMP_0-7 |
| - WC02B_COMP_6-12 | - WC05_COMP_5-12 | - WC08_COMP_7-14 |
| - WC02N_COMP_12-22 | - WCO5_COMP_12-19 | - WC08_COMP_14-21 |
| - WC03A_COMP_0-6 | - WC06_COMP_0-7 | - WC09_COMP_19-24 |
| - WC03B_COMP_6-12 | - WC06_COMP_7-14 | |
| - WC03N_COMP_12-22 | - WCO6_COMP_14-21 | |

The material generated from the sample areas listed above meets the definition of Regulated Fill as defined in General Permit No. WMGR096-NE004. Soil will be accepted and managed in accordance with Site permits.

Please contact me should you have any questions at (215) 734-1400, extension 1262.

Sincerely,
CLEAN EARTH, LLC.



Claret Tening Ndifet
Material Approvals Specialist

Cc: Kaila Ilyes, CE
Kristin Foldes, CEDTI
Renee Dumas, CEDTI
Chris Amoratis, CEDTI

General Permit For Processing/Beneficial Use of Municipal Waste

Permit No. WMGR096-NE004

Date Amended _____

Date Issued July 28, 2014

Date Expires December 23, 2018

The Department of Environmental Protection, Bureau of Waste Management, Division of Municipal and Residual Waste hereby approves the:

Beneficial Use Processing prior to Beneficial Use Other

of: Regulated fill as defined in Guidance Document 258-2182-773 (Management of Fill).

for use as: Construction material.

This approval is granted to: Bethlehem Earth LP


Office: 491 Old York Road Site: Easton Road
Jenkintown, PA 19046 Bethlehem, PA 18015

subject to the attached conditions and may be revoked or suspended for any project which the Department of Environmental Protection determines to have a substantial risk to public health, the environment, or cannot be adequately regulated under the provisions of this permit.

The processing of wastes not specifically identified in the documentation submitted for this approval, or the beneficial use of wastes not approved in this permit, is prohibited without the written permission of the Department.

This permit is issued under the authority of the Solid Waste Management Act (35 P.S. §§6018.101-6018.1003), The Pennsylvania Used Oil Recycling Act (58 P.S. §§471-480), The Clean Streams Law (35 P.S. §§691.1-691.1001), Sections 1905-A, 1917-A and 1920-A of the Administrative Code of 1929 (71 P.S. §§510-5, 510-17 and 510-20) and the Municipal Waste Planning, Recycling and Waste Reduction Act (53 P.S. §§4000.101-4000.1904).

This approval is granted:

By: 

Statewide Regional

Title: Environmental Program Manager

THIS PERMIT IS NON-TRANSFERABLE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

**General Permit
For
Processing/Beneficial Use of Residual Waste**

Permit No. WMGR096

Date Amended December 23, 2013

Date Issued December 23, 2013

Date Expires December 23, 2018

The Department of Environmental Protection, Bureau of Waste Management, Division of Municipal and Residual Waste hereby approves the:

Beneficial Use Processing prior to Beneficial Use Other

of: regulated fill as defined in Guidance Document 258-2182-773 (Management of Fill)

for use as: construction material.

This approval is granted to: Eligible persons or municipalities qualifying for the general permit.

subject to the attached conditions and may be revoked or suspended for any project which the Department of Environmental Protection determines to have a substantial risk to public health, the environment, or cannot be adequately regulated under the provisions of this permit.

The processing of wastes not specifically identified in the documentation submitted for this approval, or the beneficial use of wastes not approved in this permit, is prohibited without the written permission of the Department.

This permit is issued under the authority of the Solid Waste Management Act (35 P.S. §§6018.101-6018.1003), The Pennsylvania Used Oil Recycling Act (58 P.S. §§471-480), The Clean Streams Law (35 P.S. §§691.1-691.1001), Sections 1905-A, 1917-A and 1920-A of the Administrative Code of 1929 (71 P.S. §§510-5, 510-17 and 510-20) and the Municipal Waste Planning, Recycling and Waste Reduction Act (53 P.S. §§4000.101-4000.1904).

This approval is granted:

By: 

Statewide Regional

Title: Environmental Program Manager

THIS PERMIT IS NON-TRANSFERABLE

GENERAL PERMIT NUMBER WMGR096

Regulated Fill

Rev. 12/2013

1. *Permitted Activities.* The approval herein granted is limited to the beneficial use of regulated fill as a construction material when moved offsite or received onsite. Regulated fill may only be moved to a property that is approved for construction and that is zoned and used exclusively for commercial and industrial uses or that is unzoned but is exclusively used for commercial and industrial uses (excluding parks, playgrounds, nursing homes, child care facilities, schools or other residential-style facilities or recreation areas). This permit does not authorize blending or processing of material to meet concentration limits in Table GP-1.

2. *Definitions.* The following terms, when used in this permit, have the following meanings:

"Regulated fill" is soil, rock, stone, dredged material, used asphalt, historic fill, and brick, block or concrete from construction and demolition activities that is separate from other waste and recognizable as such that has been affected by a spill or release of a regulated substance and the concentrations of regulated substances exceed the values in Table FP-1 of the Department's fill policy.

"Historic fill" is material (excluding landfills, waste piles and impoundments) used to bring an area to grade prior to 1988 that is a conglomeration of soil and residuals, such as ashes from the residential burning of wood and coal, incinerator ash, coal ash, slag, dredged material and construction and demolition waste. The term does not include iron or steel slag that is separate from residuals if it meets the coproduct definition and the requirements of 25 Pa. Code § 287.8. The term does not include coal ash that is separate from residuals if it is beneficially used in accordance with 25 Pa. Code Chapter 290.

3. *Concentration limits.* Regulated fill may not exceed the values in Table GP-1.
4. *Hazardous waste prohibited.* Material that is hazardous waste under Chapter 261a (relating to identification and listing of hazardous waste) may not be used under this permit.
5. *Proper management of fill.* Regulated fill may not be placed on a greenfield property not planned for development, or on a property currently used for or planned for residential use. Material containing concentrations of regulated substances that exceed the values in Table GP-1 may not be moved under the provisions of this general permit, but must be managed in accordance with the provisions of the Department's municipal or residual waste regulations.
6. *Proper management of dredged materials.* In addition to meeting the values in Table GP-1, regulated fill consisting of dredged material from tidal streams shall meet 250 mg/l for chlorides based on an SPLP analysis.
7. *Proper management of fill materials containing metals.* Regulated fill containing metals may be moved to a site if those metals concentrations meet either the concentration limits for metals in Table GP-1 or the background concentration, whichever is higher. Fill that exceeds the concentration limits must be placed as part of an approved construction project in such a manner that all direct contact exposure pathways are eliminated. The background concentration is defined as the concentration of a substance that is present at the site before beneficial use activities occur under this permit. Background concentrations may be determined by taking a representative number of samples, based

on the size of the site, from each of the receiving site and the fill proposed for beneficial use. The average concentration in the receiving site samples becomes the background concentration.

8. *Notice to municipalities.* A person that applies for coverage under this general permit shall submit a copy of the determination of applicability application to each municipality in which the beneficial use activities will be located a minimum of 60 days prior to initiating operations.
9. *Sampling and analysis.* Prior to the beneficial use, the permittee shall perform chemical analysis on representative samples of regulated fill for the appropriate parameters in accordance with the protocol in Appendix A to the Fill Policy. The chemical analyses required in this condition shall be performed by a laboratory accredited or registered for accreditation under the Pennsylvania Environmental Laboratory Accreditation Act of 2002. The operator of the facility shall inspect all incoming waste to insure that the receipt of the waste is consistent with the permit.
10. *Deed Acknowledgment for beneficial use of regulated fill.* The permittee shall provide to the Department proof of a recorded deed notice that includes the exact location of the fill placed on the property, including longitude and latitude descriptions, and a description of the types of fill identified by sampling and analysis. The location and description shall be made a part of the deed for all future conveyances or transfers of the subject property. This deed notice may be provided as an ongoing part of the project or at the end of the completed project.
11. *Siting limitations.* Regulated fill shall not be beneficially used under this permit unless authorized in writing by the Department:
 - a. in the 100-year floodplain;
 - b. within 100 feet of a sinkhole or area draining into a sinkhole;
 - c. within 50 feet of a dwelling unless the owner has provided a written waiver consenting to the beneficial use being closer than 50 feet;
 - d. within 100 feet of a perennial stream;
 - e. within 300 feet of a water source unless the owner has provided a written waiver consenting to the beneficial use being closer than 300 feet;
 - f. within 300 feet of an exceptional value wetland, an exceptional value water or a high quality water.
 - g. The siting limitations in paragraph 11(a) are not applicable to the placement of regulated fill at a brownfield site provided the placement is in accordance with all other applicable requirements.
12. *Water quality.* Regulated fill shall not be placed in the waters of the Commonwealth.

GENERAL PERMIT NUMBER WMGR096

Regulated Fill

Rev. 12/2013

13. *Nuisances.* Regulated fill shall not contain any free liquids based on visual inspection, and shall not create public nuisances (for example objectionable odors) and shall minimize the generation of fugitive dust emissions related to operation of the facility.
14. *Stabilization* Upon completion of areas where regulated fill is beneficially used, the areas shall be promptly vegetated or otherwise stabilized to minimize and control erosion if the construction activity is not undertaken within 30 days of fill placement.
15. *Mixing prohibited.* The regulated fill may not be mixed with other types of solid waste unless otherwise approved by the Department.
16. *Storage and transportation.* The storage and transportation of regulated fill shall be in a manner that does not create a nuisance or be harmful to the public health, safety or the environment. Storage and transportation shall comply with the requirements of 25 Pa. Code Chapters 285 or 299 (relating to storage, collection and transportation of municipal waste and residual waste), whichever is applicable to the waste type being stored or transported.
17. *Discharge of waste prohibited.* This permit does not authorize and shall not be construed as an approval to discharge any other waste, wastewater or runoff from the site where regulated fill originated or the site where regulated fill is beneficially used, to the land or waters of the Commonwealth.
18. *Fugitive emissions.* The permittee shall comply with any applicable fugitive emissions standards adopted under 25 Pa. Code §123.1 and 123.2.
19. *Erosion and sedimentation control.* An erosion and sedimentation control plan shall be implemented that is consistent with the applicable requirements of Chapter 102 (relating to erosion and sedimentation control). A copy of the approved stormwater management, and erosion and sedimentation control plans shall be maintained onsite during construction activities.
20. *Recordkeeping.* Records of analytical evaluations conducted on the regulated fill under this permit, daily records of the weight or volume of the regulated fill received, the placement locations, and the approved construction plans shall be kept onsite by the permittee and at the permittee's place of business. This information shall be available to the Department for inspection and submitted to the Department upon request. This waste analysis information shall be retained by the permittee for a minimum of 5 years.
21. *Relationship to local law.* Nothing in this permit shall be construed to supersede, amend, or authorize a violation of any of the provisions of any valid and applicable local law, ordinance, or regulation, providing that said local law, ordinance, or regulation is not preempted by the Solid Waste Management Act, 35 PS §6018.101 et seq.; and the Municipal Waste Planning, Recycling and Waste Reduction Act of 1988, 53 P.S. §4000.101 et seq.
22. *Inspections.* As a condition of this permit and of the permittee's authority to conduct the activities authorized by this permit, the person receiving the fill hereby authorizes and consents to allow authorized employees or agents of the Department, without advance notice or search warrant, upon presentation of appropriate credentials and without delay, to have access to and to inspect all areas on

GENERAL PERMIT NUMBER WMGR096

Regulated Fill

Rev. 12/2013

which solid waste management activities are being, will be, or have been conducted. This authorization and consent shall include consent to collect samples of waste, soils, water, or gases; to take photographs; to perform measurements, surveys, and other tests; to inspect any monitoring equipment; to inspect the methods of operation; and to inspect and/or copy documents, books, and papers required by the Department to be maintained. This permit condition is referenced in accordance with Sections 608 and 610(7) of The Solid Waste Management Act, 35 P.S. § 6018.608 and 6018.610(7). This condition in no way limits any other powers granted under the Solid Waste Management Act.

23. *Prevention of harm or threat of harm.* The activities authorized by this permit shall not harm or present a threat of harm to the health, safety, or welfare of the people or environment. The Department may modify, suspend, revoke, or reissue the authorization granted in this permit if it deems necessary to prevent harm or the threat of harm to the public health, the environment, or if the activities cannot be adequately regulated under the conditions of this permit.
24. *Individual permits.* The permittee shall comply with the terms and conditions of this general permit and with the environmental protection acts to the same extent as if the activities were covered by an individual permit. The Department may require the permittee to apply for, and obtain an individual permit or cease operation if the permittee is not in compliance with the conditions of this general permit or is conducting an activity that harms or presents a threat of harm to the health, safety or welfare of the people or the environment.
25. *Incorporation of application.* All activities conducted under the authorization granted in this permit shall be conducted in accordance with the permittee's application. Except to the extent that the permit states otherwise, the permittee shall use the regulated fill as described in the approved application.
26. *Permit application requirements.* Persons or municipalities that propose to beneficially use regulated fill by operating under the terms and conditions of this general permit after the date of permit issuance shall submit a determination of applicability application for each location of beneficial use. The application shall be sent to the Department's appropriate regional office that has jurisdiction for waste-related activities in the county where the regulated fill will be beneficially used. At a minimum, the following determination of applicability information shall be submitted on application forms provided by the Department:
 - a. Name and street address of the applicant;
 - b. Names, addresses, and locations of known or potential sources of regulated fill and estimated source weights or volumes;
 - c. Name, location, area and ownership of the location of beneficial use;
 - d. Documentation including laboratory analytical results and a certification by the permittee that the regulated fill meets the conditions of this general permit;
 - e. Number and title of the general permit;

- f. Proof that the beneficial use management activities are consistent with the general permit.
- g. A description of the activities that will take place and an estimated schedule for placement of regulated fill.
- h. If the size of the receiving site, where the beneficial use takes place, is greater than or equal to one acre, proof that a Pennsylvania Natural Diversity Inventory (PNDI) review at the site has been completed. This review should be in accordance with the Department's policy #400-0200-001, "Policy for Pennsylvania Natural Diversity Inventory Coordination During Permit Review and Evaluation" (Jan. 18, 2003) and all known occurrences must be resolved with the jurisdictional agency. If a PNDI review has been completed at the receiving site under another Department program, the report of that review and approval may be submitted to the Department to satisfy this permit application requirement.
- i. Signed and notarized statement by the person who seeks the "determination of applicability" to accept all conditions and operate under the terms and conditions of this general permit;
- j. Proof that copies of the "determination of applicability" have been submitted to each municipality, county, county planning agency and county health department where the beneficial use is located;
- k. Proof that the applicant has legal right to enter the land where the beneficial use will occur and perform the activities approved in Condition 1 of this permit and an irrevocable written consent from the landowner giving the Department permission to enter upon land where the applicant will be conducting waste management activities;
- l. Information that identifies the applicant (i.e. individual, corporation, partnership, government agency, association, etc.) and related parties, including the names and addresses of every officer who has a financial interest in or controls the facility operation;
- m. Evidence must be provided by persons operating under this general permit of noncompliance with state and federal environmental laws and regulations;
- n. Independent contractors retained by the applicant to perform any activities authorized under this permit must comply with state and federal laws and regulations relating to environmental protection and transportation safety; and
- o. The non-refundable fee for a determination of applicability fee, as specified in the residual waste management regulations, payable to the "Commonwealth of Pennsylvania."

27 *Commencement of activities.* For persons or municipalities that propose to beneficially use regulated fill on nonresidential brownfields, the activities may commence after 60 working days from the date the determination of applicability application is submitted to the Department, unless otherwise instructed by the Department. A "brownfield" is defined as real property where regulated substances have been released and remain present. For persons or municipalities that propose to beneficially use regulated fill for one of the following, the activities may commence after 60 working days from the

date the determination of applicability application is submitted to the Department, unless otherwise instructed by the Department:

- a. on nonresidential greenfields;
- b. on properties where the area subject to regulated fill placement is larger than 10 acres; or
- c. on properties where waiver or modification of a siting limitation in Condition 11 has been requested.

A "greenfield" is defined as real property that is not a brownfield.

28. *New sources of fill.* If new sources of regulated fill are to be included at the approved beneficial use location, the permittee shall notify the Department in writing by submitting information in accordance with subparts (b) and (d) of Condition 26 above. A permittee may commence with beneficial use of the new source after 10 working days from the date the information is submitted to the Department, unless otherwise instructed by the Department.
29. *Expansions.* If the placement of additional regulated fill will be expanded beyond the permitted area, the permittee shall notify the Department in writing by submitting information in accordance with subparts (a)-(h) and (j) - (k) of Condition 26 above. If additional regulated fill volumes are needed for the approved construction activities within the existing permitted area, the permittee shall submit a letter notifying the appropriate Department regional office. The letter shall include a description of the proposed changes and identify the additional volumes necessary.
30. *Notification of changes in operator.* Any person who is operating under the provisions of this permit shall immediately notify, in writing, the waste program Operations Manager of the appropriate regional office of the Department (address in attached list) within 30 days via certified mail of any changes in: the company name, address, owners, operators, and/or responsible officials of the company; the generator(s) of the regulated fill; the compliance status (e.g., violations) of any permit issued by the Department or federal government under the environmental protection acts
31. *Determination that material is no longer waste.* Regulated fill that meets all the terms and conditions of this permit and that does not exceed concentration limits in Table GP-1 shall cease to be waste once the regulated fill is placed. If dewatered regulated fill is subsequently excavated or moved beyond the area permitted for fill placement, it will then be subject to applicable requirements for the use of regulated fill.
32. *Revocation or suspension.* Failure of the measures herein approved to be performed as intended, or as designed, or in compliance with the applicable laws, rules and regulations, and terms and conditions of this permit, for any reason, shall be grounds for the revocation or suspension of the permittee's approval to operate under this permit.

**Table GP-1a
Regulated Fill Concentration Limits For Organics**

PARAMETER	Regulated Fill	
	CASRN	Total analysis
		mg/kg
ACENAPHTHENE	83-32-9	4700
ACENAPHTHYLENE	208-96-8	6900
ACEPHATE	30560-19-1	3.6
ACETALDEHYDE	75-07-0	0.63
ACETONE	67-64-1	110
ACETONITRILE	75-05-8	3.9
ACETOPHENONE	98-86-2	540
ACETYLAMINOFLUORENE, 2- (2AAF)	53-96-3	0.28
ACROLEIN	10-702-8	0.0014
ACRYLAMIDE	79-06-1	0.0024
ACRYLIC ACID	79-10-7	0.11
ACRYLONITRILE	107-13-1	0.037
ALACHLOR	15972-60-8	0.077
ALDICARB	116-06-3	0.12
ALDRIN	309-00-2	0.44
ALLYL ALCOHOL	107-18-6	1.2
AMINOBIIPHENYL, 4-	92-67-1	0.0046
AMITROLE	61-82-5	0.12
AMMONIA	7664-41-7	360
AMMONIUM SULFAMATE	7773-06-0	24
ANILINE	62-53-3	0.34
ANTHRACENE	120-12-7	350
ATRAZINE	1912-24-9	0.13
BAYGON (PROPOXUR)	114-26-1	0.057
BENOMYL	17804-35-2	970
BENTAZON	25057-89-0	45
BENZENE	71-43-2	0.13
BENZIDINE	92-87-5	0.34
BENZO[A]ANTHRACENE	56-55-3	110
BENZO[A]PYRENE	50-32-8	11
BENZO[B]FLUORANTHENE	205-99-2	110
BENZO[GHI]PERYLENE	191-24-2	180
BENZO[K]FLUORANTHENE	207-08-9	610
BENZOIC ACID	65-85-0	7800
BENZOTRICHLORIDE	98-07-7	0.048
BENZYL ALCOHOL	100-51-6	1100
BENZYL CHLORIDE	100-44-7	0.22
BHC, ALPHA	319-84-6	0.19
BHC, BETA-	319-85-7	0.82
BHC, DELTA-	319-86-8	30
BHC, GAMMA (LINDANE)	58-89-9	0.072
BIPHENYL, 1,1-	92-52-4	2200
BIS(2-CHLOROETHYL)ETHER	111-44-4	0.017
BIS(2-CHLORO-ISOPROPYL)ETHER	108-80-1	8

**Table GP-1a
Regulated Fill Concentration Limits For Organics**

BIS(CHLOROMETHYL)ETHER	542-86-1	0.00044
PARAMETER		Regulated Fill
	CASRN	Total analysis
		mg/kg
BIS[2-ETHYLHEXYL] PHTHALATE	117-81-7	130
BISPHENOL A	80-05-7	2000
BROMACIL	314-40-9	2
BROMOCHLOROMETHANE	74-97-5	1.6
BROMODICHLOROMETHANE	75-27-4	3.4
BROMOMETHANE	74-83-9	0.54
BROMOXYNIL	1689-84-5	170
BROMOXYNIL OCTANOATE	1689-99-2	360
BUTADIENE, 1,3-	106-99-0	0.027
BUTYL ALCOHOL, N-	71-36-3	24
BUTYLATE	2008-41-5	51
BUTYLBENZENE, N-	104-51-8	2600
BUTYLBENZENE, SEC-	135-98-8	960
BUTYLBENZENE, TERT-	98-06-6	740
BUTYLBENZYL PHTHALATE	85-68-7	10000
CAPTAN	133-06-2	31
CARBARYL	63-25-2	41
CARBAZOLE	86-74-8	83
CARBOFURAN	1563-66-2	0.87
CARBON DISULFIDE	75-15-0	350
CARBON TETRACHLORIDE	56-23-5	0.26
CARBOXIN	5234-68-4	53
CHLORAMBEN	133-90-4	1.6
CHLORDANE	57-74-9	49
CHLORO-1,1-DIFLUOROETHANE, 1-	75-68-3	4800
CHLORO-1-PROPENE, 3- (ALLYL CHLORIDE)	107-05-1	0.13
CHLOROACETOPHENONE, 2-	532-27-4	0.026
CHLOROANILINE, P-	108-47-8	52
CHLOROBENZENE	108-90-7	6.1
CHLOROBENZILATE	510-15-6	6.3
CHLOROBUTANE, 1-	109-69-3	6400
CHLORODIBROMOMETHANE	124-48-1	3.2
CHLORODIFLUOROMETHANE	75-45-6	2.6
CHLOROETHANE	75-00-3	19
CHLOROFORM	67-66-3	2.5
CHLORONAPHTHALENE, 2-	91-58-7	18000
CHLORONITROBENZENE, P-	100-00-5	18
CHLOROPHENOL, 2-	95-57-8	4.4
CHLOROPRENE	126-99-8	0.97
CHLOROPROPANE, 2-	75-29-5	44
CHLOROTHALONIL	1897-45-6	61
CHLOROTOLUENE, O-	95-49-8	20
CHLORPYRIFOS	2921-88-2	23

**Table GP-1a
Regulated Fill Concentration Limits For Organics**

CHLORSULFURON	64902-72-3	71
CHLORTHAL-DIMETHYL (DACTHAL) (DCPA)	1861-32-1	650
PARAMETER		Regulated Fill
		Total analysis
	CASRN	mg/kg
CHRYSENE	218-01-8	230
CRESOL(S)	1319-77-3	8.9
CRESOL, O- (METHYLPHENOL, 2-)	95-48-7	180
CRESOL, M (METHYLPHENOL, 3-)	108-39-4	100
CRESOL, P (METHYLPHENOL, 4-)	108-44-5	12
CRESOL, P-CHLORO-M-	59-50-7	110
CROTONALDEHYDE	4170-30-3	0.0043
CROTONALDEHYDE, TRANS-	123-73-9	0.0043
CUMENE	98-82-8	1600
CYCLOHEXANONE	108-94-1	2800
CYFLUTHRIN	68359-37-5	53
CYROMAZINE	66215-27-8	240
DDD, 4,4'	72-54-8	30
DDE, 4,4'	72-55-9	170
DDT, 4,4'	50-29-3	230
DI(2-ETHYLHEXYL)ADIPATE	103-23-1	10000
DIALATE	2303-16-4	0.58
DIAMINOTOLUENE, 2,4-	95-80-7	0.016
DIAZINON	333-41-5	0.082
DIBENZO[A,H]ANTHRACENE	53-70-3	11
DIBROMO-3-CHLOROPROPANE, 1,2-	96-12-8	0.0092
DIBROMOBENZENE, 1,4-	106-37-6	410
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	106-93-4	0.0012
DIBROMOMETHANE	74-95-3	7.7
DIBUTYL PHTHALATE, N-	84-74-2	4100
DICHLORO-2-BUTENE, 1,4-	764-41-0	0.0039
DICHLOROBENZENE, 1,2-	95-50-1	59
DICHLOROBENZENE, 1,3-	541-73-1	61
DICHLOROBENZENE, P-	106-46-7	10
DICHLOROBENZIDINE, 3,3'	91-94-1	32
DICHLORODIFLUOROMETHANE (FREON 12)	75-71-8	100
DICHLOROETHANE, 1,1-	75-34-3	2.7
DICHLOROETHANE, 1,2-	107-06-2	0.1
DICHLOROETHYLENE, 1,1-	75-35-4	0.19
DICHLOROETHYLENE, CIS-1,2-	156-59-2	1.6
DICHLOROETHYLENE, TRANS-1,2-	156-60-5	2.3
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	0.076
DICHLOROPHENOL, 2,4-	120-83-2	1
DICHLOROPHENOXYACETIC ACID, 2,4- (2,4-D)	94-75-7	1.8
DICHLOROPROPANE, 1,2-	78-87-5	0.11
DICHLOROPROPENE, 1,3-	542-75-6	0.46
DICHLOROPROPIONIC ACID (DALAPON), 2,2-	75-99-0	5.3

**Table GP-1a
Regulated Fill Concentration Limits For Organics**

DICHLORVOS	62-73-7	0.052
DICYCLOPENTADIENE	77-73-6	0.26
PARAMETER		Regulated Fill
		Total analysis
	CASRN	mg/kg
DIELDRIN	60-57-1	0.44
DIETHYL PHTHALATE	84-66-2	160
DIFLUBENZURON	35367-38-5	52
DIMETHOATE	80-51-5	0.77
DIMETHOXYBENZIDINE, 3,3-	119-90-4	64
DIMETHYLAMINOAZOBENZENE, P-	60-11-7	0.15
DIMETHYLANILINE, N,N-	000121-69-7	11
DIMETHYLBENZIDINE, 3,3-	000119-93-7	1.5
DIMETHYLPHENOL, 2,4-	105-67-9	87
DINITROBENZENE, 1,3-	99-65-0	0.049
DINITROPHENOL, 2,4-	51-28-5	0.46
DINITROTOLUENE, 2,4-	121-14-2	0.2
DINITROTOLUENE, 2,6- (2,6-DNT)	606-20-2	3
DINOSEB	88-85-7	0.29
DIOXANE, 1,4-	123-91-1	0.31
DIPHENAMID	957-51-7	12
DIPHENYLAMINE	122-39-4	12
DIPHENYLHYDRAZINE, 1,2-	122-66-7	0.58
DIQUAT	85-00-7	0.24
DISULFOTON	298-04-4	0.078
DIURON	330-54-1	0.86
ENDOSULFAN	115-29-7	61
ENDOSULFAN I (ALPHA)	959-98-8	260
ENDOSULFAN II (BETA)	33213-65-9	260
ENDOSULFAN SULFATE	1031-07-8	70
ENDOTHALL	145-73-3	4.1
ENDRIN	72-20-8	5.5
EPICHLOROHYDRIN	106-89-8	0.12
ETHEPHON	16672-87-0	5.9
ETHION	563-12-2	110
ETHOXYETHANOL, 2- (EGEE)	110-80-5	17
ETHYLACETATE	141-78-6	470
ETHYLACRYLATE	140-88-5	0.5
ETHYL BENZENE	100-41-4	46
ETHYL DIPROPYLTHIOCARBAMATE, S- (EPTC)	759-94-4	180
ETHYL ETHER	60-29-7	120
ETHYL METHACRYLATE	97-63-2	30
ETHYLENE GLYCOL	107-21-1	170
ETHYLENE THIOUREA (ETU)	96-45-7	0.034
ETHYLP-NITROPHENYL PHENYLPHOSPHOROTHIDATE	2104-64-5	0.31
FENAMIPHOS	22224-92-6	0.17
FENVALERATE (PYDRIN)	51630-58-1	94

**Table GP-1a
Regulated Fill Concentration Limits For Organics**

FLUOMETURON	2164-17-2	2.5
FLUORANTHENE	206-44-0	3200
PARAMETER		Regulated Fill
		Total analysis
	CASRN	mg/kg
FLUORENE	86-73-7	3800
FLUOROTRICHLOROMETHANE (FREON 11)	75-69-4	87
FONOFOS	944-22-9	2.9
FORMALDEHYDE	50-00-0	12
FORMIC ACID	64-18-6	450
FOSETYL-AL	39148-24-8	27000
FURAN	110-00-9	0.87
FURFURAL	98-01-1	3.7
GLYPHOSATE	1071-83-6	620
HEPTACHLOR	75-44-8	0.68
HEPTACHLOR EPOXIDE	1024-57-3	1.1
HEXACHLOROBENZENE	118-74-1	0.96
HEXACHLOROBUTADIENE	87-68-3	1.2
HEXACHLOROCYCLOPENTADIENE	77-47-4	91
HEXACHLOROETHANE	67-72-1	0.56
HEXANE	110-54-3	1100
HEXYTHIAZOX (SAVEY)	78587-05-0	820
HYDRAZINEHYDRAZINE SULFATE	302-01-2	0.00042
HYDROQUINONE	123-31-9	55
INDENO[1,2,3-CD]PYRENE	193-39-5	110
IPRODIONE	36734-19-7	1200
ISOBUTYL ALCOHOL	78-83-1	150
ISOPHORONE	78-59-1	1.9
KEPONE	143-50-0	2.2
MALATHION	121-75-5	34
MALEIC HYDRAZIDE	123-33-1	47
MANEB	12427-38-2	5.8
MERPHOS OXIDE	78-48-8	41
METHACRYLONITRILE	126-98-7	0.067
METHAMIDOPHOS	10265-92-6	0.063
METHANOL	67-56-1	120
METHOMYL	16752-77-5	3.2
METHOXYCHLOR	72-43-5	630
METHOXYETHANOL, 2-	109-86-4	1.1
METHYL ACETATE	79-20-9	1900
METHYL ACRYLATE	96-33-3	77
METHYL CHLORIDE	74-87-3	0.038
METHYL ETHYL KETONE	78-93-3	110
METHYL ISOBUTYL KETONE	108-10-1	6.3
METHYL METHACRYLATE	80-62-6	56
METHYL METHANESULFONATE	66-27-3	0.32
METHYL PARATHION	298-00-0	0.42

Table GP-1a
Regulated Fill Concentration Limits For Organics

METHYL STYRENE (MIXED ISOMERS)	25013-15-4	340
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.28
PARAMETER		Regulated Fill
		Total analysis
	CASRN	mg/kg
METHYLENE BIS(2-CHLOROANILINE), 4,4'	101-14-4	15
METHYLNAPHTHALENE, 2-	91-57-6	8000
METHYLSTYRENE, ALPHA	98-83-9	250
NAPHTHALENE	91-20-3	25
NAPHTHYLAMINE, 1-	134-32-7	1.1
NAPHTHYLAMINE, 2-	91-59-8	0.046
NAPROPAMIDE	15299-99-7	2300
NITROANILINE, M-	99-09-2	0.091
NITROANILINE, O-	88-74-4	0.1
NITROANILINE, P-	100-01-6	0.086
NITROBENZENE	98-95-3	2.2
NITROPHENOL, 2-	88-75-5	17
NITROPHENOL, 4-	100-02-7	4.1
NITROPROPANE, 2-	79-46-9	0.0011
NITROSODIETHYLAMINE, N-	55-18-5	0.000076
NITROSODIMETHYLAMINE, N-	62-75-9	0.00017
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3	0.014
NITROSODI-N-PROPYLAMINE, N-	621-64-7	0.0051
NITROSODIPHENYLAMINE, N-	86-30-6	83
NITROSO-N-ETHYLUREA, N-	759-73-9	0.00022
OCTYL PHTHALATE, DI-N-	117-84-0	10000
OXAMYL (VYDATE)	29135-22-0	2.6
PARATHION	56-38-2	360
PCB-1016 (AROCLOR)	12674-11-2	200
PCB-1221 (AROCLOR)	11104-28-2	2.5
PCB-1232 (AROCLOR)	11141-16-5	2
PCB-1242 (AROCLOR)	53469-21-9	62
PCB-1248 (AROCLOR)	12672-29-6	44
PCB-1254 (AROCLOR)	11097-69-1	44
PCB-1260 (AROCLOR)	11096-82-5	130
PEBULATE	1114-71-2	860
PENTACHLOROENZENE	608-93-5	660
PENTACHLORONITROBENZENE	82-68-8	20
PENTACHLOROPHENOL	87-86-5	5
PHENACETIN	62-44-2	46
PHENANTHRENE	85-01-8	10000
PHENOL	108-95-2	66
PHENYLENEDIAMINE, M-	108-45-2	8.6
PHENYLPHENOL, 2-	90-43-7	1900
PHORATE	298-02-2	0.88
PHTHALIC ANHYDRIDE	85-44-9	6200
PICLORAM	1918-02-1	7.4
PRONAMIDE	23950-58-5	3.1

**Table GP-1a
Regulated Fill Concentration Limits For Organics**

PROPANIL	709-98-8	26
PROPHAM	122-42-9	48
PARAMETER		Regulated Fill
		Total analysis
	CASRN	mg/kg
PROPYLBENZENE, N-	103-85-1	780
PROPYLENE OXIDE	75-56-9	0.19
PYRENE	129-00-0	2200
PYRIDINE	110-86-1	0.22
QUINOLINE	91-22-5	0.074
QUIZALOFOP (ASSURE)	76578-14-8	47
RONNEL	299-84-3	800
SIMAZINE	122-34-9	0.15
STRYCHNINE	57-24-9	2.5
STYRENE	100-42-5	24
TEBUTHIURON	34014-18-1	55
TERBACIL	5902-51-2	2.2
TERBUFOS	13071-79-9	0.12
TETRACHLOROBENZENE, 1,2,4,5-	95-94-3	14
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8- (TCDD)	1746-01-6	0.00353
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	18
TETRACHLOROETHANE, 1,1,2,2-	79-34-5	0.0093
TETRACHLOROETHYLENE (PCE)	127-18-4	0.43
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	950
TETRAETHYL LEAD	78-00-2	0.012
TETRAETHYLDITHIOPYROPHOSPHATE	3689-24-5	1.5
THIOFANOX	39195-18-4	0.34
THIRAM	137-26-8	130
TOLUENE	108-88-3	44
TOLUIDINE, M-	108-44-1	0.51
TOLUIDINE, O-	95-53-4	1.2
TOLUIDINE, P-	106-49-0	1.3
TOXAPHENE	8001-35-2	1.2
TRIALATE	2303-17-5	660
TRIBROMOMETHANE (BROMOFORM)	75-25-2	4.4
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,2-	76-13-1	53000
TRICHLOROBENZENE, 1,2,4-	120-82-1	27
TRICHLOROBENZENE, 1,3,5-	108-70-3	31
TRICHLOROETHANE, 1,1,1-	71-55-6	7.2
TRICHLOROETHANE, 1,1,2-	79-00-5	0.15
TRICHLOROETHYLENE (TCE)	79-01-6	0.17
TRICHLOROPHENOL, 2,4,5-	95-95-4	6100
TRICHLOROPHENOL, 2,4,6-	88-06-2	8.9
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	93-76-5	1.5
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TP) (SILVEX)	93-72-1	22
TRICHLOROPROPANE, 1,1,2-	598-77-6	8.7
TRICHLOROPROPANE, 1,2,3-	96-18-4	0.82

**Table GP-1a
Regulated Fill Concentration Limits For Organics**

TRICHLOROPROPENE, 1,2,3-	96-19-5	30
TRIFLURALIN	1582-09-8	0.96
PARAMETER		Regulated Fill
		Total analysis
	CASRN	mg/kg
TRIMETHYLBENZENE, 1,3,4- (TRIMETHYLBENZENE, 1,2,4-)	95-63-6	20
TRIMETHYLBENZENE, 1,3,5-	106-67-8	6.2
TRINITROTOLUENE, 2,4,6-	118-96-7	0.023
VINYL ACETATE	106-05-4	14
VINYL BROMIDE (BROMOETHENE)	593-60-2	0.28
VINYL CHLORIDE	75-01-4	0.027
WARFARIN	81-81-2	7.4
XYLENES (TOTAL)	1330-20-7	990
ZINEB	12122-67-7	61

**Table GP-1b
Regulated Fill Concentration Limits For Metals and Inorganics**

PARAMETER	Regulated Fill	
		Total analysis
	CASRN	mg/kg
ALUMINUM	7429-90-5	190000
ANTIMONY	7440-36-0	27
ARSENIC	7440-38-2	53
BARIUM AND COMPOUNDS	7440-39-3	6200
BERYLLIUM	7440-41-7	320
BORON AND COMPOUNDS	7440-42-8	6.7
CADMIUM	7440-43-9	38
CHROMIUM III	16065-83-1	190000
CHROMIUM VI	18540-29-9	190
COBALT	7440-48-4	22
COPPER	7440-50-8	36000
CYANIDE, FREE	57-12-5	200
IRON	7439-89-6	190000
LEAD	7439-92-1	450
MANGANESE	7439-96-5	190000
MERCURY	7439-97-6	10
NICKEL	7440-02-0	650
NITRATE NITROGEN	14797-55-8	na
NITRITE NITROGEN	14797-65-0	na
SELENIUM	7782-49-2	26
SILVER	7440-22-4	84
THALLIUM	7440-28-0	14
TIN	7440-31-5	680
VANADIUM	7440-62-2	72000
ZINC	7440-66-6	12000

**Department of Environmental Protection Regional Offices
(and Counties Served)**

- I. Bucks, Chester, Delaware, Montgomery, Philadelphia.

Southeast Regional Office
2 East Main Street
Norristown, PA 19401
Phone: (484) 250 - 5960

- II. Carbon, Lackawanna, Lehigh, Luzerne, Monroe, Northampton, Pike, Schuylkill, Susquehanna, Wayne, Wyoming.

Northeast Regional Office
2 Public Square
Wilkes-Barre, PA 18701-1915
Phone: (570) 826 - 2511

- III. Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry, York.

Southcentral Regional Office
909 Elmerton Avenue
Harrisburg, PA 17110-8200
Phone: (717) 705 - 4706

- IV. Bradford, Cameron, Centre, Clearfield, Clinton, Columbia, Lycoming, Montour, Northumberland, Potter, Snyder, Sullivan, Tioga, Union.

Northcentral Regional Office
208 West 3rd Street - Suite 101
Williamsport, PA 17701
Phone: (570) 327 - 3653

- V. Allegheny, Armstrong, Beaver, Cambria, Fayette, Greene, Indiana, Somerset, Washington, Westmoreland.

Southwest Regional Office
400 Waterfront Drive
Pittsburgh, PA 15222-4745
Phone: (412) 442 - 4000

- VI. Butler, Clarion, Crawford, Elk, Erie, Forest, Jefferson, Lawrence, McKean, Mercer, Venango, Warren.

Northwest Regional Office
230 Chestnut Street
Meadville, PA 16335-3481
Phone: 814-332-6848



RECYCLING & DISPOSAL SOLUTIONS

March 22, 2021
Sent via e-mail

Michael D. Burke, CHMM
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
21 Penn Plaza
360 West 31st Street, 8th Floor
New York, New York 10001

RE: 414 and 444 Gerard Ave
Bronx, NY
NYSDEC BCP Site No. C203106
NYCOER Site No. 18TMP0367X
CEC Approval No. 213071354

Dear Mr. Burke:

Clean Earth of Carteret, LLC (CEC) is pleased to provide you with this acceptance letter for the soil material being generated from the site referenced above. We reviewed the following documents for the above referenced site:

- 414 Gerard Avenue Phase 1 Environmental Site Assessment (ESA) prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. dated October 3, 2017,
- 414 Gerard Ave Remedial Investigation Report prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. dated May 29, 2018,
- 414 Gerard Avenue Remedial Action Work Plan prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. dated December 7, 2018,
- 444 Gerard Avenue Phase 1 ESA prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. dated May 2, 2019,
- 444 Gerard Avenue Phase II Environmental Site Assessment prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. dated May 17, 2019,
- 444 Gerard Avenue Supplemental Investigation prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. dated September 2019,
- 414-444 Gerard Avenue Phase 1 ESA prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. dated April 14, 2020,
- 414-444 Gerard Avenue Draft Waste Characterization Report and Laboratory Analytical Reports prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. dated April 24, 2020,
- 444 Gerard Avenue Remedial Action Work Plan-Stipulation list prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. dated October 20, 2020, and

- 414 and 444 Gerard Avenue Soil Disposal Notification prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. dated December 18, 2020.

This letter serves as approval of ~25,000 cubic yards (37,500 tons) of non-hazardous soil material represented by composite sample IDs listed in table 1 below and all related grab samples to be generated from construction and remedial activities at the site.

The facility is permitted to analyze missing parameters by collecting soil samples from incoming loads. Please note that TPH analysis (every 600 Tons) is required to comply with CEC's Class B permit. CEC will collect the additional TPH samples as required upon arrival at the facility to meet the CEC analytical requirements and invoice accordingly.

This approval is based upon material being accurately represented by all information provided to CEC at this time, including, but not limited to, Waste Profiles, analysis, site diagrams, site historical documents, and sampling plans. The approval number must be provided when scheduling and include the approval number and grid IDs on all manifests when shipping soils generated from this site.

Slag, coal, tar, wood, ash, cinders, metal, glass and any other solid waste may not comprise more than 1% of soil destined for CEC. Material with high odor or clay > 1% may face rejection. Any soils with free petroleum product or liquids, sludges, or hazardous waste cannot be accepted. Please be advised that should the material be found to be non-conforming based on our facility permit requirements, CEC will contact you to discuss options.

Processing of the soil will be performed under NJDEP Recycling Center Permit No. CBG200002.

If you should have any questions or require any additional information, please contact me at 215-734-1400 X1262.

Sincerely,



Claret M. Tening Ndifet
Material Approvals Specialist

CC: Tejas Shah-CEC
Lawrenzo Yengwia-CEC

Table 1: Sample IDs

Sample ID
WC01A_COMP_0-6
WC01B_COMP_6-12
WC01N_COMP_12-22
WC02A_COMP_0-6
WC02B_COMP_6-12
WC02N_COMP_12-22
WC03A_COMP_0-6
WC03B_COMP_6-12
WC03N_COMP_12-22
WC04A_COMP_0-5
WC04B_COMP_5-10
WC04N_COMP_10-15
WC05_COMP_0-5
WC05_COMP_5-12
WC05_COMP_12-19
WC06_COMP_0-7
WC06_COMP_7-14
WC06_COMP_14-21
WC07_COMP_0-5
WC07_COMP_5-12
WC07_COMP_12-19
WC08_COMP_0-7
WC08_COMP_7-14
WC08_COMP_14-21
WC09_COMP_19-24

APPENDIX D
Imported Materials Facility Approval and
Permit Documentation

Lamees Esmail

From: Julia Leung
Sent: Wednesday, January 20, 2021 10:56 AM
To: Lamees Esmail
Subject: FW: Material Import Request - BCP Site - C203106 - Former Rocket Jewelry

Julia Leung
Project Engineer

LANGAN

Direct: 212.479.5452
Mobile: 917.892.3222
[File Sharing Link](#)
www.langan.com

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From: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>
Sent: Tuesday, January 05, 2021 10:42 AM
To: Julia Leung <JLeung@Langan.com>
Cc: Brian Gochenaur <bgochenaur@Langan.com>; Berninger, Steven G (HEALTH) <Steven.Berninger@health.ny.gov>; Dudek, Heidi M (DEC) <heidi.dudek@dec.ny.gov>
Subject: RE: Material Import Request - BCP Site - C203106 - Former Rocket Jewelry

Hi Julia,

I have reviewed the material import request form and approve of the quarry stone as backfill material for the UST excavation area.

Thanks Nate

Nathan Freeman

Project Manager, Division of Environmental Remediation

New York State Department of Environmental Conservation

625 Broadway, Albany, NY 12233

P: (518) 402-9767 | nathan.freeman@dec.ny.gov

www.dec.ny.gov |  |  | 



From: Julia Leung <JLeung@Langan.com>
Sent: Monday, December 28, 2020 10:34 AM
To: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>
Cc: Brian Gochenaur <bgochenaur@Langan.com>; Berninger, Steven G (HEALTH) <Steven.Berninger@health.ny.gov>
Subject: Material Import Request - BCP Site - C203106 - Former Rocket Jewelry

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hi Nathan, hope you had a happy holiday!

We would like to request import of 0.75-inch quarry stone to the site for backfill of the AST excavation to site grade. Please see attached material import request form. The backfilling is scheduled for Monday Jan 4th so an expedited review would be appreciated. Thank you!

Julia Leung
Project Engineer

LANGAN

Celebrating 50 years in business | 1970-2020

Direct: 212.479.5452

Mobile: 917.892.3222

[File Sharing Link](#)

Phone: 212.479.5400 Fax: 212.479.5444

21 Penn Plaza

360 West 31st Street, 8th Floor

New York, NY 10001-2727

www.langan.com

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Submittal # 20-AGG-001019
12/15/2020

Version 1

AARCO ENVIROMENTAL
50 GEAR AVENUE

LINDENHURST NY 11757

414 Gerard Street, Bronx

,

Dear Sir/Madam:

New York Sand and Stone looks forward to the opportunity to partner with you on another successful project. Enclosed are current gradations for the materials intended for use on your project. Also provided are supporting documents and disclaimers. Please contact me if you should require any additional information.

Sincerely yours,

A handwritten signature in black ink that reads 'Morsia Thomas'.

MORSIA THOMAS, CONCRETE QC MANAGER - NEW YORK



Material Submittal

Material Code : 173250

Date : 12/15/2020

Description : 3/4" ASTM #57

No. 20-AGG-001019 Version 1

Customer AARCO ENVIROMENTAL
Contact
Office Phone 631-586-5900
Project Name 414 Gerard Street, Bronx
Project Contact

Material Code	Description	Source Supplier
173250	LIME ASTM #57 3/4" STONE	EASTERN CONCRETE-WANTAGE

Prepared By :

MORSIA THOMAS

CONCRETE QC MANAGER - NEW

Aggregate Test Report



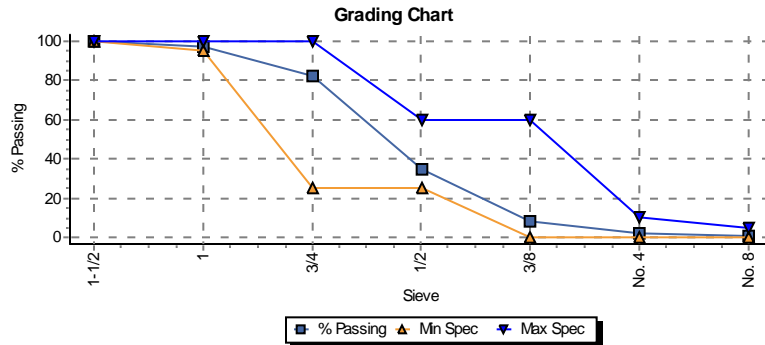
Report Date : 12/4/2020

173250 - LIME ASTM #57 3/4" STONE

Sample ID :	Belt 27	Customer :
Sample Date :	12/3/2020	Project :
Sample By :		Laboratory :
Supplier :	ECMI	Plant :
Supplier Source :	WANTAGE	Specification :
Supplier Reference No :		Class :

Sieve (in)	% Passing	Specification		Testing Results	
		Min	Max		
1-1/2	100.0	100.0	100.0	Fineness Modulus	7.07
1	97.4	95.0	100.0		
3/4	81.7	25.0	100.0		
1/2	34.8	25.0	60.0		
3/8	7.9	0.0	60.0		
No. 4	1.9	0.0	10.0		
No. 8	1.1	0.0	5.0		

Comments : 660 CSS at .55, 440 CSS at .60



Project Engineer :

Test Lab Supervisor : MOR SIA THOMAS

Date : 12/4/2020

Certification #:



Approved Crushed Stone

Certified Fill Materials

Washed Sand Products

Hamburg Stone Quarry
3620 Route 23
Hamburg, NJ 07419

Glen Gardner Stone Quarry
Railroad Ave
Glen Gardner, NJ 08826

Wantage Quarry
80 Route 23
Hamburg, NJ 07419

Quinton Sand
358 Quinton Marlboro Rd.
Bridgeton, NJ 08072

Order toll free- (888) 913-7625

Dispatch office phone (973) 827-7625

Material Certification

Please be advised that our aggregate production facilities listed above manufacture construction materials, and fill materials, from the virgin properties as described herein;

Hamburg Stone Quarry- Crushed stone products and environmental fill materials are produced from virgin rock, and property, located in Sussex County NJ, Township of Hardyston, block 14, lot 15.

Approved source: NY DOT 8-48R.

Glen Gardner Stone Quarry- Materials are produced from virgin rock, and property, located in Hunterdon County NJ, Borough of Glen Gardner, Lebanon Township, blocks 21 and 9, lots 32, 37, 38, 100, and 6.

Approved source: NY 10-47R.

Wantage Stone Quarry- Crushed stone products and environmental fill materials are produced from virgin rock, and property, located in Sussex County, Wantage Twp, Block 11, Lot 5.

Approved source: NY DOT 8-96R.

Quinton Sand Facility – Sand materials are produced from virgin property located in Quinton Township, Salem County, NJ block 35, lots 54, 63, 64, 66, 67.

Approved source: NY 10-189F

To the best of our knowledge, these materials are not contaminated with any hazardous substances while on our properties as listed above.

If you require additional information, please contact our office.

Eastern Concrete Materials, Inc.

Aggregates Division

CALL TOLL FREE (888) 913-7625

FAX- (973) 827-0652

Aggregate Test Report



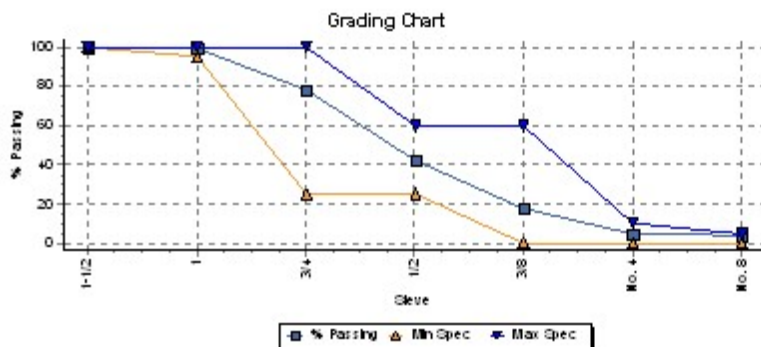
Report Date : 12/15/2020

173250 - LIME ASTM #57 3/4" STONE

Sample ID :	ship 2	Customer :	
Sample Date :	12/9/2020	Project :	
Sample By :		Laboratory :	NYSS_LAB - NEW YORK SAND & STONE
Supplier :	COLARUSSO	Plant :	25TH STREET
Supplier Source :	HUDSON	Specification :	ASTM #57 - all sieve
Supplier Reference No :		Class :	

Sieve (in)	% Passing	Specification		Testing Results	
		Min	Max		
1-1/2	100.0	100.0	100.0	Fineness Modulus	6.95
1	98.7	95.0	100.0		
3/4	78.3	25.0	100.0		
1/2	42.1	25.0	60.0		
3/8	18.2	0.0	60.0		
No. 4	4.6	0.0	10.0		
No. 8	3.6	0.0	5.0		

Comments :



Project Engineer :

Test Lab Supervisor : MORSIA THOMAS

Date : 12/15/2020

Certification #:



Pier J – Brooklyn Navy Yard

Brooklyn Navy Yard, Pier J
Brooklyn, NY 11205

25th Street Terminal

75 25th Street
Brooklyn, NY 11232

North Shore Terminal

2541 Richmond Terrace
Staten Island, NY 10303

Oceanside Terminal

3645 Hampton Road
Oceanside, NY 11572

Material Certification

Please be advised that all our aggregate terminals listed above provide construction materials, and fill materials, from the virgin properties as described herein;

Pier J – Brooklyn Navy Yard

Approved Source: NYS 10-12R, RFM

Martin Marietta Materials
Nova Scotia, Canada

25th Street Terminal

Approved Source: NYS 1-23R

Lafarge
Ravena, NY

Approved Source: NYS 9-39R

Carver
Middleburg, NY

Approved Source: NYS 8-17R

Colarusso
Hudson, NY

Approved Source: NYS 10-189F

Eastern Concrete Materials
Quinton, NJ

Approved Source: NYS 10-12RFM

Martin Marietta Materials
Nova Scotia, Canada

Oceanside Terminal

Approved Source: NYS 8-17R, RFM

Colarusso
Hudson, NY

Approved Source: NYS 1-23R

Lafarge
Ravena, NY

North Shore Terminal

Approved Source: NYS 8-17R

Colarusso
Hudson, NY

Approved Source: NYS 1-23R

Lafarge
Ravena, NY

Approved Source: NYS 1-30R

Peckham Material Corp
Catskill, NY

Approved Source: NYS 10-189F

Eastern Concrete Materials
Quinton, NJ

Approved Source: NYS 10-47R

Eastern Concrete Materials
Glen Gardner, NJ

To the best of our knowledge, these materials are not contaminated with any hazardous substances while on our properties as listed above.

If you require additional information, please contact our office.

New York Sand and Stone

Phone: 718 -596-2897

Lamees Esmail

From: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>
Sent: Wednesday, April 28, 2021 8:44 AM
To: Lamees Esmail
Cc: Kimberly Semon; Brian Gochenaur; Dudek, Heidi M (DEC); Berninger, Steven G (HEALTH)
Subject: RE: C203106 - Former Rocket Jewelry Site - Import Request Application

Hi Lamees,

The imported material request for clean riprap at the Former Rocket Jewelry site is approved. Have daily remedial activities started for this site?

Thanks Nate

Nathan Freeman

Project Manager, Division of Environmental Remediation

New York State Department of Environmental Conservation

Remedial Bureau B, Section D
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York, 12233-7017
P: 518-402-9767 | F: 518-402-9773 | nathan.freeman@dec.ny.gov

www.dec.ny.gov |  |  | 



From: Lamees Esmail <lesmail@langan.com>
Sent: Tuesday, April 27, 2021 3:20 PM
To: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>
Cc: Kimberly Semon <ksemon@langan.com>; Brian Gochenaur <bgochenaur@Langan.com>
Subject: C203106 - 414 Gerard Avenue - Import Request Application

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Good Afternoon Nathan,

Attached please find an import request form for (3-5-inch) clean riprap to be used at the site for temporary truck track pads. The material was quarried and processed from a virgin natural source of traprock. Please let us know if you have any questions prior to approval of this material.

Thank you,

Lamees Esmail, EIT
Senior Staff Engineer

LANGAN

Direct: 212.479.5499 x5717

Mobile: 847.219.8327

[File Sharing Link](#)

Phone: 212.479.5400 Fax: 212.479.5444

21 Penn Plaza

360 West 31st Street, 8th Floor

New York, NY 10001-2727

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**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that would pass a size 80 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Location where fill was obtained:

Identification of any state or local approvals as a fill source:

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

The information provided on this form is accurate and complete.

Michael O. Brake

Signature

Date

Print Name

Firm



STAVOLA

Stavola Companies
 175 Drift Road
 Tinton Falls, NJ 07724
 732-542-2328 x325
 Fax 732-389-0074

AGGREGATE ANALYSIS

DATE:	1/27/2021
LAB LOCATION:	Bound Brook
Q.C. TECHNICIAN:	R VanNote

DATE SAMPLED	1/27/2021
MATERIAL TYPE:	3-5" Clean Riprap
SOURCE:	Bound Brook
COLOR:	Blue/Gray
SAMPLE NUMBER	1
OF TOTAL NUMBER OF SAMPLES	1

Soundness, % Loss (5 Cycles - Sodium Sulfate -ASTM C-88):	0.35	10 Max
L.A. Abrasion, % Wear (ASTM C -131):	9.5%	50 Max
Specific Gravity (ASTM C - 127):	2.91	
Water Absorption, % (ASTM C - 127):	0.2	
Flat & Elongated, % (ASTM D4791)	0.0	

Sieve Size	Wt. lbs	% ret	% pass
10"	0	0.0	100.0
9 1/2"	0.0	0.0	100.0
9"	0.0	0.0	100.0
8 1/2"	0.0	0.0	100.0
8"	0.0	0.0	100.0
7 1/2"	0.0	0.0	100.0
7"	0.0	0.0	100.0
6 1/2"	7.5	0.6	99.4
6"	9.9	0.8	98.6
5 1/2"	12.8	1.0	97.6
5"	18.9	1.5	96.1
4 1/2"	27.1	2.2	93.9
4"	130.3	10.4	83.6
3 1/2"	235.4	18.7	64.9
3"	230.8	18.4	46.5
2 1/2"	253.3	20.1	26.4
2"	190.7	15.2	11.2
1 1/2"	96.1	7.6	3.6
1"	25.4	2.0	1.5
3/4"	19.3	1.5	0.0
Pan	0.0	0.0	
Total	1257.5		

* **NOTE:** Reasonable efforts will be taken to load out material meeting the specified size, however some sizes outside the specification may be present in the delivered load. If this does occur, some onsite sorting will be required.



**STAVOLA
CONSTRUCTION
MATERIALS, INC.**

P.O. Box 482
Red Bank, NJ 07701
732-542-2328 x 323
732-389-0074 F
732-522-0889 M
rvannote@stavola.com

To Whom It May Concern,
We are currently crushing rock down to the following size products:

Screenings (#10)	Ballast
3/8" Clean (#8)	3" - 5" Riprap
5/8" Clean (#67)	6" - 12" Core Stone
3/4" Clean (#57)	12" - 24" Army Core Stone
1 1/2" Clean	D.G.A. (Dense Graded Aggregate)
2 1/2" Clean	Quarry Process
Common Fill	Washed Sand

Stavola Construction Materials, Inc. (S.C.M.I.) certifies all aggregate products are quarried and processed from a virgin natural source of volcanic extrusive igneous basalt (also known as Traprock), natural to the region. The traprock is not comingled with any other material, nor is it affected by conditions or processes that would result in the introduction of contaminants. It is not adversely impacted by discharges of hazardous materials or chemical application, and it is stockpiled at our licensed Bound Brook quarry in Bridgewater, NJ.

The quarry is located in the First Watchung Mountain Range, 409 Chimney Rock Rd, Bridgewater Township, Block 711, Lot 6.01. The address is 409 Chimney Rock Rd, Bridgewater, NJ 08807. Mine Certificate: 004502.

If you have any questions or require further information, please don't hesitate to contact me at 732-542-2328 x329

Sincerely,

Robert VanNote

Robert VanNote
Stavola Construction Materials Incorporated
Quality Control Manager



State of New Jersey
Department of Labor and Workforce Development

Certificate No. 004916
Expiration Date 3/31/2022

MINE REGISTRATION CERTIFICATE

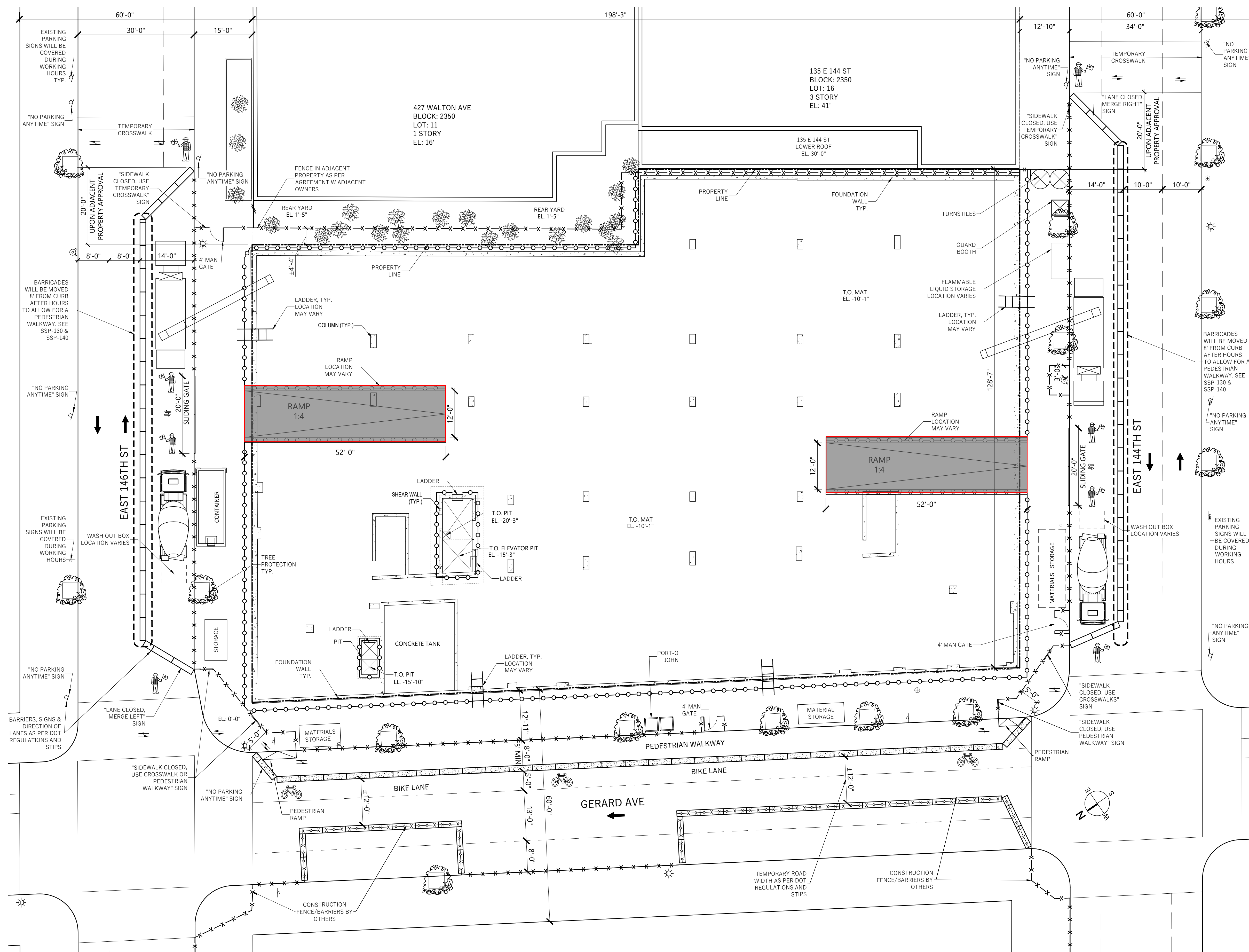
ISSUED TO: STAVOLA CONSTRUCTION MATERIALS INC
409 CHIMNEY ROCK RD BLK NO(S): 711
BRIDGEWATER, NJ LOT NO(S): 6.01
COUNTY: SOMERSET

Issued pursuant to the provisions of N.J.S.A. 34:6-98.1 et. seq. Failure to comply with the provisions of the Act, and the Rules promulgated thereunder, shall be good cause for the revocation of this Certificate.

Robert Asaro-Angelo

Commissioner

THIS CERTIFICATE MUST BE POSTED AT ALL TIMES



LEGEND

---	PROPERTY LINE
---	ROADWAY LINE
---	TO BE DEMOLISHED
---	SHEETING/SHORING
---	UNDERPINNING
---	SITE CONSTRUCTION FENCE
---	GUARDRAIL
---	CHAIN LINK FENCE
---	EXISTING FENCE
---	4' HIGH CONSTRUCTION FENCE OR BARRIER WITH 4' HIGH PLEXIGLAS OR WIRE MESH ON TOP
---	VERTICAL NETTING
---	FDNY → FDNY ACCESS PATH
---	DELIVERY → DELIVERY PATH
---	DEBRIS REMOVAL PATH
---	MOVABLE BARRIERS - YODOCK
---	NOT MOVABLE BARRIERS - CONCRETE JERSEY BARRIERS
---	NOT MOVABLE BARRIERS - FILLED WITH WATER
---	NOT MOVABLE - CONCRETE JERSEY OR WATER FILLED BARRIERS WITH CONSTRUCTION FENCE ON TOP
---	MOVABLE BARRIERS WITH CHAIN LINK FENCE ON TOP
---	MOVABLE BARRIERS WITH PLEXIGLAS OR WIRE MESH ON TOP
---	SIDEWALK SHED
---	HIGH SHED
---	OVERHEAD PROTECTION
---	LOADING DOCK
---	ROOF PROTECTION
---	HORIZONTAL NETTING
---	SITE PLAN
---	PIPE SCAFFOLD
---	WINDOW PROTECTION
---	LADDER INTO EXCAVATION SITE
---	GATE
---	SLIDING GATE
---	VEHICLE TRAFFIC FLOW
---	VEHICULAR TRAFFIC ON & OFF SITE
---	PEDESTRIAN WALKWAY
---	FIRE DEPARTMENT CONNECTION
---	STAND PIPE RISER
---	FIRE HYDRANT
---	FLAG PERSON
---	STREET LIGHT
---	STREET SIGNS
---	BUILDING ENTRY/EXIT

EQUIPMENT LIST

1. CONCRETE PUMP TRUCK
2. CONCRETE TRUCK
3. DELIVERY TRUCK
4. FORKLIFT
5. HAND TOOLS
6. CHAIN SAWS
7. CHIPPING GUNS
8. JACKHAMMERS
9. ELECTRIC GRINDER
10. COMPRESSOR
11. GENERATOR

LOCATION OF EQUIPMENT WILL VARY IN ACCORDANCE WITH WORK

- NOTES**
1. SIDEWALK CLOSING SIGNAGE MUST BE PLACED AT EACH CORNER, AS WELL AS EACH SIDE OF THE JOBSITE.
 2. CONCRETE WASHOUT BOX TO COMPLY WITH BC 3303.15.
 3. GUARDRAIL SYSTEM SHALL BE INSTALLED AND MAINTAINED TO PROTECT ALL OPEN EDGES THAT ARE 6FT DEEP OR GREATER (BC 3304.4.4).
 4. PEDESTRIAN RAMP TO COMPLY WITH BC 3307.2.6.
 5. STORAGE OF FLAMMABLE MATERIALS AND GASES TO COMPLY WITH THE NYC FIRE CODE AND IN ACCORDANCE WITH BC 3307.4.2.
 6. ALL TRAFFIC BARRIERS LOCATED IN THE STREET MUST COMPLY WITH THE DOT REGULATIONS.
 7. ALL EXCAVATIONS SHALL BE DRAINED, AND THE DRAINAGE SHALL BE MAINTAINED AS LONG AS THE EXCAVATION CONTINUES OR REMAINS (BC 3303.14.2).

Approximate Area of Import Placement for Truck Entrances

Owner:
THE DOMAIN CO
11 PARK PLACE, SUITE 705
NEW YORK, NY 10007

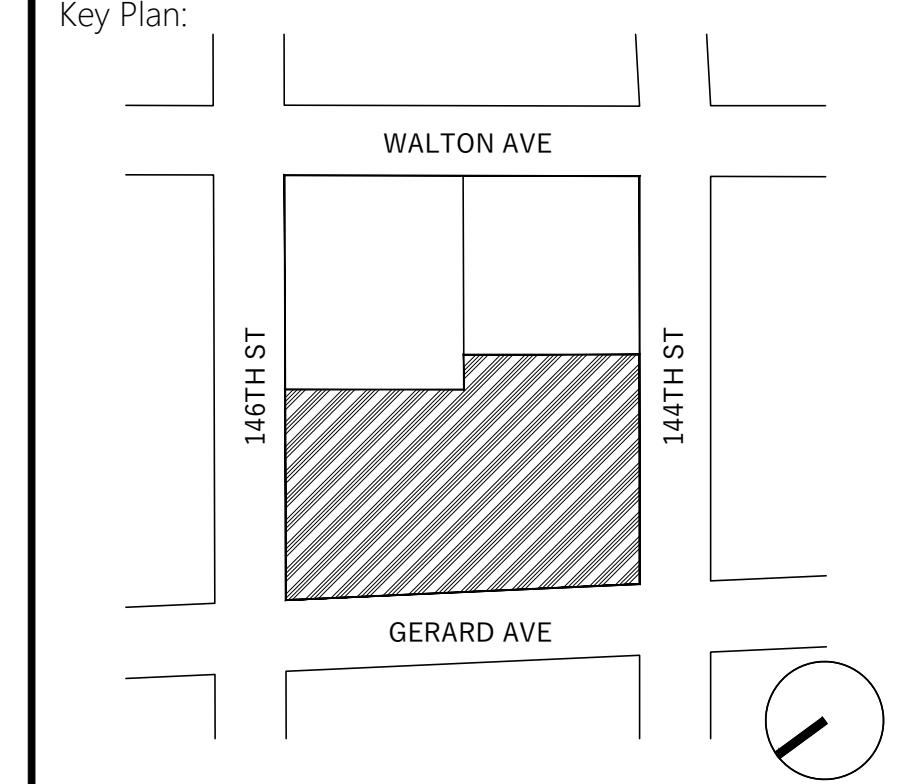
CONTACT NAME: JARED WATSON
CONTACT PHONE: 504-827-5798

Contractor:
THE VOREA CONSTRUCTION COMPANIES LLC
1148 46TH RD
LONG ISLAND CITY, NY 11101

CONTACT NAME: FRANK BUCKO
CONTACT PHONE: 718-707-2884
TRACKING NUMBER: 611339 R

Prepared By:
TOTAL SAFETY CONSULTING, LLC
751 BROADWAY, GROUND FLOOR
BAYONNE, NJ 07002
CONTACT PERSON: PETER SIMON
FILING REPRESENTATIVE: JACLYN GAZELLE
CONTACT PHONE: 201-437-5150

Application #:	NB 220613735
Block:	2350
Lot:	1
Community Board:	201
Bin#:	2001084
Landmark:	N
Zone/Map:	M1-4; R8A / 6A
Bldg Height:	11 STORIES, ±129'-0"



Scope of Work:
CONSTRUCTION OF A NEW 11 STORY RESIDENTIAL BUILDING

Scale: 5/64"=1'-0"

Project:

SITE SAFETY PLAN for 414 GERARD AVE

414 GERARD AVE BRONX, NY 10451

Drawing Title:
FOUNDATION PLAN

Seal & Signature:	Date: 12.08.2020
	Project No.: T181242
	Drawing by: N.C.
	Checked by: S.M.
	Drawing No.: SSP-120.00
	Page #: 7
	TSC Revision #:

Caroline Grattan

From: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>
Sent: Wednesday, July 14, 2021 10:07 AM
To: Lamees Esmail
Cc: Brian Gochenaur; Kimberly Semon; Berninger, Steven G (HEALTH)
Subject: [External] RE: Former Rocket Jewelry Box Site - Import Request Application

Approved, thanks

From: Lamees Esmail <lesmail@langan.com>
Sent: Wednesday, July 14, 2021 7:42 AM
To: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>
Cc: Brian Gochenaur <bgochenaur@Langan.com>; Kimberly Semon <ksemon@langan.com>
Subject: Former Rocket Jewelry Box Site - Import Request Application

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Good Morning Nathan,

Attached please find an import request form for 0.75-inch clean stone to be used as backfill beneath the proposed building matt slab and for placement behind foundation walls. The material was quarried and processed from a virgin natural source of traprock. Please let us know if you have any questions prior to approval of this material.

Thank you,

Lamees Esmail, EIT
Senior Staff Engineer

LANGAN

Direct: 212.479.5499 x5717

[File Sharing Link](#)

Phone: 212.479.5400 Fax: 212.479.5444

21 Penn Plaza

360 West 31st Street, 8th Floor

New York, NY 10001-2727

www.langan.com

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VIRGINIA OHIO ILLINOIS FLORIDA TEXAS ARIZONA COLORADO WASHINGTON CALIFORNIA
ATHENS CALGARY DUBAI LONDON PANAMA

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**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that would pass a size 80 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Location where fill was obtained:

Identification of any state or local approvals as a fill source:

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

The information provided on this form is accurate and complete.

Michael O. Brake

Signature

Date

Print Name

Firm



**STAVOLA
CONSTRUCTION
MATERIALS, INC.**

P.O. Box 482
Red Bank, NJ 07701
732-542-2328 x 323
732-389-0074 F

rvannote@stavola.com

May 10, 2021

To Whom it may concern,

We are currently crushing rock down to the following size products:

Screenings (#10)	3/8" Clean (#8)	3"- 5" Riprap
Common Fill	5/8" Clean (#67)	6"- 12" Core Stone
Finishing Stone	3/4" Clean (#57)	12"- 24" Army Core Stone
Washed Sand/mason sand	1" Clean (#5)	I-5 Soil Aggregate
1/4" (#9)	1 1/2" Clean	D.G.A. (Dense Graded Aggregate)
I-9 Soil Aggregate	2 1/2" Clean	QP (Quarry Process)
I-14 Soil Aggregate	3" minus shale (redrock)	Ballast

Stavola Construction Materials, Inc. (S.C.M.I.) certifies all aggregate products are quarried and processed at our Bound Brook Quarry are from a virgin natural source of volcanic extrusive igneous basalt (also known as Traprock), natural to the region as well as a Red Shale product also natural to this region. The traprock and shale are not comingled with any other material, nor is it affected by conditions or processes that would result in the introduction of contaminants. It is not adversely impacted by discharges of hazardous materials or chemical application, it is quarried and stockpiled at our licensed Bound Brook quarry in Bridgewater, NJ.

The pockets of Shale (Red Rock Bound) found in the Brook Quarry, are also a virgin source, natural to the region, and free from contaminants.

The quarry is located in the First Watchung Mountain Range, 409 Chimney Rock Rd, Bridgewater Township, Block 711, Lot 6. The address is 409 Chimney Rock Rd, Bridgewater, NJ 08807. Mine Certificate: 004916

If you have any questions or require further information, please don't hesitate to contact me at 732-542-2328 x329

Sincerely,

Robert S VanNote
Stavola Construction Materials Incorporated
Quality Control Manager



Gradation Test Report

Plant 02-Bound Brook Aggregate
 Product 0013-#57_3/4" Clean
 Specification #57_3/4" Clean



Sample Information

Sample No 75371324 Split Sample
 Date Sampled 04/27/2021 12:57 Resample
 Sampled By Third Party Testing
 Type Day Production
 Method Stockpile

Gradation Results

Date Completed 04/27/2021 12:57 Tested By Third Party Testing

Unit	Moist Mass	Dry Mass	Wash Mass	Moisture %	Wash Loss %	Procedure		
lb		22.30						
Sieve	Mass Retained	Cum Mass Retained	Ind % Retained	% Retained	% Passing	Target	Specification	Comment
2" (50mm)	0.00	0.00	0	0	100			
1 1/2" (37.5mm)	0.00	0.00	0	0	100		≥100	
1" (25mm)	0.10	0.10	0	0	100		95-100	
3/4" (19mm)	3.70	3.80	17	17	83			
1/2" (12.5mm)	10.90	14.70	49	66	34		25-60	
3/8" (9.5mm)	4.20	18.90	19	85	15			
#4 (4.75mm)	2.70	21.60	12	97	3		0-10	
#8 (2.36mm)	0.20	21.80	1	98	2		0-5	
Pan	0.50	22.30	2.2	100.0	0.0			



State of New Jersey
Department of Labor and Workforce Development

Certificate No. 004916
Expiration Date 3/31/2022

MINE REGISTRATION CERTIFICATE

ISSUED TO: STAVOLA CONSTRUCTION MATERIALS INC
409 CHIMNEY ROCK RD BLK NO(S): 711
BRIDGEWATER, NJ LOT NO(S): 6.01
COUNTY: SOMERSET


Issued pursuant to the provisions of N.J.S.A. 34:6-98.1 et. seq. Failure to comply with the provisions of the Act, and the Rules promulgated thereunder, shall be good cause for the revocation of this Certificate.


Robert Asaro-Angelo

Commissioner

THIS CERTIFICATE MUST BE POSTED AT ALL TIMES

2/11/2021 5:11:09 PM C:\Users\Timothy.Smith\Documents\Revit Local\18637-414 Gerard Avenue\TS-R19.rvt

 Approximate Area of Import Placement
Beneath the Proposed Matt Slab

 Approximate Area of Import Placement
Behind the Proposed Foundation Walls



1 CELLAR LAYOUT PLAN
SCALE: 1/8" = 1'-0"

EAST 144 STREET

TOP-OF-MAT ELEVATION U.O.N.:	+12'-6"
MAT THICKNESS U.O.N.:	SEE PLAN
CONCRETE STRENGTH- FLOOR SLABS AND BEAMS:	f_c = 6,000 PSI
CONCRETE STRENGTH- WALL AND COLUMNS:	f_c = 6,000 PSI

DRAWING NOTES:

- PROVIDE f_c = 7 KSI FOR MAT FOUNDATION
- PROVIDE f_c = 6 KSI FOR FOUNDATION WALL
- REFER TO FO-100 SERIES FOR FOUNDATION DETAILS
- REFER TO 5-FO-112 FOR FOUNDATION WALL REINFORCEMENT SCHEDULE
- ALL ELEVATIONS SHOWN ARE BASED ON NAVD 88
- "W"-DENOTES CONCRETE PIER. SEE 12S-501 FOR REINFORCEMENT AND DETAILS

NO.	DATE	ISSUE
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9	12/18/2020	BULLETIN #4
8	09/12/2020	BULLETIN #1
7	04/10/2020	DOB SUBMISSION #2
6	04/03/2020	CD SUBMISSION
5	2/21/2020	CD PROGRESS SUBMISSION
4	11/22/2019	DOB SUBMISSION
3	11/22/2019	100% DESIGN DEVELOPMENT
2	10/11/2019	DESIGN DEVELOPMENT PROGRESS
1	08/28/19	SCHEMATIC DESIGN

KEY PLAN

S9ARCHITECTURE
122 8TH AVENUE
NEW YORK, NY 10001
T 212-487-4077
S9ARCHITECTURE.COM

Owner:
THE DOMAN COMPANIES
11 PARK PLACE
NEW YORK, NY 10007
212-991-0001

Owner:
YOREA
11-48 46TH ROAD
LONG ISLAND CITY, NY 11101
718-707-2884

Architect/Interior Designer:
S9 ARCHITECTURE
322 8TH AVENUE
NEW YORK, NY 10001
212-457-4077

Structural Engineer / Exterior Consultant:
DESIMONE CONSULTING ENGINEERS
140 BROOKDAVE, 23TH FLOOR
NEW YORK, NY 10005
212-535-2211

MEP Engineer:
ETTINGER ENGINEERING ASSOCIATES
505 8TH AVENUE, 24TH FLOOR
NEW YORK, NY 10018
212-244-2410

Civil Engineer:
LANGAN
360 WEST 31ST, 8TH FLOOR
NEW YORK, NY 10001
212-479-5400

Landscape Architect:
FUTURE GREEN STUDIO
18 Bay Street
Brooklyn, NY 11231
718-855-8995

PROJECT TITLE:
414 GERARD AVENUE
414 GERARD AVENUE, BRONX, NY 10451

PROJECT NO: 18637.00
DOB NO: 220613735

DRAWING TITLE:
CELLAR LAYOUT PLAN

SCALE: 1/8" = 1'-0" PAGE: OF

FO-101.00

DOB SCAN TICKER

NOT FOR CONSTRUCTION

06/12/20 CHECKED BY: Checker
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Caroline Grattan

From: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>
Sent: Monday, July 19, 2021 9:58 AM
To: Kimberly Semon
Cc: Brian Gochenaur; Lamees Esmail; Caroline Grattan
Subject: [External] RE: Former Rocket Jewelry Box Site - Import Request Application

Approved.

Thanks Nate

From: Kimberly Semon <ksemon@langan.com>
Sent: Saturday, July 17, 2021 2:50 PM
To: Freeman, Nathan T (DEC) <Nathan.Freeman@dec.ny.gov>
Cc: Brian Gochenaur <bgochenaur@Langan.com>; Lamees Esmail <lesmail@langan.com>; Caroline Grattan <cgrattan@Langan.com>
Subject: Former Rocket Jewelry Box Site - Import Request Application

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Good afternoon,

Attached please find an import request form for 0.75-inch clean stone from the Tilcon Mount Hope quarry to be used as backfill beneath the proposed building mat slab and for placement behind foundation walls. The material was quarried and processed from a virgin natural source of traprock. Please let us know if you have any questions prior to approval of this material.

Thanks,

Kim

Kimberly Semon, PE
Project Manager

LANGAN

Direct: 212.479.5486
Mobile: 631.338.2036
[File Sharing Link](#)

Phone: 212.479.5400 Fax: 212.479.5444
21 Penn Plaza
360 West 31st Street, 8th Floor
New York, NY 10001-2727
www.langan.com

NEW YORK NEW JERSEY CONNECTICUT MASSACHUSETTS PENNSYLVANIA WASHINGTON, DC
VIRGINIA OHIO ILLINOIS FLORIDA TEXAS ARIZONA COLORADO WASHINGTON CALIFORNIA
ATHENS CALGARY DUBAI LONDON PANAMA

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**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that would pass a size 80 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Location where fill was obtained:

Identification of any state or local approvals as a fill source:

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

The information provided on this form is accurate and complete.

Michael O. Brake

Signature

Date

Print Name

Firm



Tilcon New York Inc.
9 Entin Road
Parsippany, NJ 07054

T 973-366-7741
www.tilconny.com

June 7, 2021

EarthEfficient LLC
30 W Main Street, Suite 217
Riverhead, NY 11901

Attn: Maxwell Lotwin
Re: Mt. Hope – ASTM#57

Dear Mr. Lotwin;

As they are produced by our Mount Hope quarry (Wharton, NJ), ASTM#57 is manufactured to meet all New Jersey Department of Transportation (NJDOT), New York State Department of Transportation (NYSDOT) and ASTM requirements. Mount Hope source appears on the NJDOT Qualified Products List, which is available at:

www.state.nj.us/transportation/eng/materials/qualified/QPLDB.shtm

Mount Hope quarry supplies 100% virgin granite (gneiss) that is quarried and processed to finished sizes. Material shipped from our Mount Hope facility is clean and free of contaminants prior to loading. Our Mount Hope Quarry source (#8-32R) was approved by the NYSDOT under test 20AR093 and the letter to this effect is attached.

Also attached please find gradation, Clean Fill Certification and third party test results confirming source quality characteristics.

If you have any questions or require additional information, please contact me at kchristodoulou@tilconny.com

Very truly yours,
TILCON NEW YORK, INC.

Konstantina Christodoulou

Konstantina Christodoulou
Quality Control Department



TILCON NEW YORK INC.

PHONE: 973-366-7741 9 ENTIN ROAD, PARSIPPANY , New Jersey 07054

2021 Clean Fill Material Certification- NJ Locations Only

Tilcon NY Inc. New Jersey Division confirms to the best of our knowledge that the aggregates produced at the locations below are virgin stone products, contain no hazards or contamination prior to shipment of materials and conform to section 901 of the *2007 New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction*, The material is identified on the job with Tilcon NJ delivery tickets. The quarries are listed in the Quality List (QPL) of the NJDOT website

<http://www.state.nj.us/transportation/eng/materials/qualified/QLDB.shtm>

Pompton Lakes Quarry- Granite Gneiss, 84 Borough of Pompton Lakes, Passaic County Blocks No(s) 5105, 5105 - Lot(s) 84, 14.2. Pompton Lakes quarry contains NJDOT approved crushed stone and certified fill products.

Mt. Hope Quarry- Granite Gneiss, 625 Mt Hope Road, Wharton Borough, Morris County NJ, Block No 20001 Lot(s) No(s) 5.01, 5.02, 7; Block No 70001 Lot No 2; Block No 20101 Lot No 6. Mt Hope quarry contains NJDOT approved crushed stone, washed products and certified fill products.

Tilcon NY Inc. has had Pompton Lakes and Mt Hope quarries analyzed under the EPA Target Compound List as required by the LSRP program- *NJDEP Residential Direct Contact Soil Remediation Standards/Clean Fill Criteria*. A copy of the report is available upon request. To the best of our knowledge, the materials produced at the above quarries comply with Section 7 of the Fill Material Guidance for SRP Sites.

Riverdale Quarry- Granite Gneiss, 125 Hamburg Turnpike, Riverdale, Morris County NJ, Block No9s0 25, 26, 27, 29 Lot No 3. Riverdale Quarry NJDOT approved crushed stone, washed products and certified fill materials.

Oxford Quarry- Granite Gneiss and Limestone , Quarry and Mt Pisgah Avenue, White Township , Warren County Block 32- Lots 15,16 Block 33- Lots 22,23 Block 34 Lots 19,20 Block 25- Lots 3,5,9,90.1 NJDOT approved crushed stone ,washed products and certified materials .

Tilcon New York, INC Quality Control 973-659-3790

An Equal Opportunity Employer

**NEW YORK STATE DEPARTMENT OF TRANSPORTATION MATERIALS BUREAU
COARSE AGGREGATE ANALYSIS FOR 703-02 PHYSICAL REQUIREMENTS**

Source
8-32R
Tilcon New York, Inc.
Mount Hope, NJ

Sample/Test
Sample Date: 10/28/2020
Test No.: 20AR093
LRN: SM20071474
Smpl ID: tapritch20BP122256

Test results represent this sample only. They may not be appropriate for designing mixes. When designing mixes, follow procedures in appropriate Materials Method.

Material meets specifications for §703-02, Coarse Aggregate. Consult pavement friction requirements for intended use.

Run		Specific Gravity
1	Bulk SSD	2.684
1	Bulk	2.672
1	Apparent	2.705
1	Absorption (%)	0.5

Uncompacted Voids	
Avg. Uncompacted Voids (%)	50.22

Acid Insoluble Residue Results

>20% indicates high residue.

LA Abrasion

Max loss ≤ 35% or 45%*. Spec applies to RR ballast classification only.

Run	10 Cycle MgSO4

Max Loss ≤ 18% on #2 stone.*

25 Cycle 3% Brine Freeze Thaw
Loss #2 (%)
Loss #1 (%)

Max loss ≤ 20% on #2 stone.*

Crush Count

Min 75% crushed for #2 stone, 85% for #1 stone.*

**NEW YORK STATE DEPARTMENT OF TRANSPORTATION MATERIALS BUREAU
COARSE AGGREGATE ANALYSIS FOR 703-02 PHYSICAL REQUIREMENTS**

Source
8-32R
Tilcon New York, Inc.
Mount Hope, NJ

Sample/Test
Sample Date: 10/28/2020
Test No.: 20AR093
LRN: SM20071474
Smpl ID: tapritch20BP122256

Petrographic Results*	
Stone Size No.	1
Noncarbonate (%)	100.0
Deleterious Material	None
Rock Type Description	%
Granite & granite gneiss	93.3
Gneiss (granitic, pink)	3.5
Gneiss (amphibolite)	3.2

Petrographic Results*	
Stone Size No.	2
Noncarbonate (%)	100.0
Deleterious Material	Within Limit
Rock Type Description	%
Granite & granite gneiss	93.6
Gneiss (granitic, pink)	3.5
Gneiss (amphibolite)	2.3
Deleterious (undifferentiated)	0.6

Source Confirmation	
Stone Size No.	1
Source Confirmation	Matches Reference
Stone Size No.	2
Source Confirmation	Matches Reference

Client: Tilcon New York Inc.

Project: Mount Hope Quality Control 2021

Project Code: 210003

Subject: Laboratory Tests of Fine and Coarse Aggregate Samples (Mount Hope Quality Quarry)

Advance Testing Co., Inc received four (4) aggregate samples on January 4, 2021. The Source of all aggregates was Mount Hope Quarry. At the client's request, the samples were tested for the following properties:

- Specific Gravities: ASTM C128
- Resistance to Degradation (Los Angeles Abrasion): ASTM C131
- Magnesium Sulfate Soundness: ASTM C88
- Elongated Particles: ASTM D4791
- Sand Equivalent Value: ASTM D2419
- Uncompacted Void Content for Fine Aggregates: AASHTO T304 Method A

CONSTRUCTION MATERIALS TESTING & INSPECTION SERVICES

Client: Tilcon New York Inc.

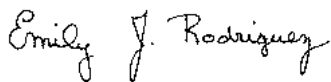
Project: Mount Hope Quality Control 2021

Project Code: 210003

Subject: Laboratory Tests of Fine and Coarse Aggregate Samples (Mount Hope Quality Quarry)

Type of Test	Washed Sand	Screenings	#8 Stone	#57 Stone
Sand Equivalent Value, %	85	56	Not Applicable	Not Applicable
Specific Gravity				
• Bulk	2.689	2.731	2.675	2.686
• Bulk-SSD	2.698	2.741	2.690	2.699
• Apparent	2.715	2.760	2.715	2.720
Water Absorption, SSD, %	0.36	0.39	0.55	0.45
L.A. Abrasion, % Loss	Not Applicable	Not Applicable	26.5	21.7
Flat and Long Particles, %				
• 3:1	Not Applicable	Not Applicable	2.6	0.5
• 5:1			0.0	0.0
Soundness, % Loss (5 Cycle Magnesium Sulfate)	4.42	4.31	0.29	0.17
Uncompacted Void Content, %	47.8	49.0		Not Applicable
Rock Type	Granite			

Sincerely,



Emily J. Rodriguez

Laboratory Manager

Advance Testing Company, Inc.



Quality Test Report

Plant 060_00418-Mt. Hope Quarry
 Product 1015002-washed 3/4"
 Specification ASTM 57



Sample Information

Sample No 1687234312 Split Sample
 Date Sampled 06/03/2021 13:57 Resample
 Sampled By Dallas Boris
 Type Production
 Method Load-out Face

Gradation Results

Date Completed 06/03/2021 13:57 Tested By Dallas Boris

Unit lb	Moist Mass	Dry Mass 19.00	Wash Mass	Moisture %	Wash Loss %	Procedure
Sieve	Mass Retained	Cum Mass Retained	Ind % Retained	% Retained	% Passing	Target Specification Comment
1" (25mm)	0.00	0.00	0.0	0.0	100.0	100-100\100 95-100
3/4" (19mm)	0.80	0.80	4.2	4.2	95.8	
1/2" (12.5mm)	11.00	11.80	57.9	62.1	37.9	6.7-57.3\32 25-60
3/8" (9.5mm)	5.60	17.40	29.5	91.6	8.4	
#4 (4.75mm)	1.40	18.80	7.4	98.9	1.1	0-2.5\1.2 0-10
#8 (2.36mm)	0.00	18.80	0.0	98.9	1.1	0.2-1.6\0.9 0-5
Pan	0.20	19.00	1.05	100.00	0.00	



State of New Jersey
Department of Labor and Workforce Development

Certificate No. 004851
Expiration Date 3/31/2022

MINE REGISTRATION CERTIFICATE

ISSUED TO: TILCON NEW YORK INC-MT. HOPE QUARRY
LOCATION: 325 MT HOPE ROAD
WHARTON, NJ
BLK NO(S): SEE BELOW
LOT NO(S): SEE BELOW
COUNTY: MORRIS

Issued pursuant to the provisions of N.J.S.A. 34:6-98.1 et. seq. Failure to comply with the provisions of the Act, and the Rules promulgated thereunder, shall be good cause for the revocation of this Certificate.


Robert Asaro-Angelo


Commissioner

THIS CERTIFICATE MUST BE POSTED AT ALL TIMES

<u>BLK NO(S)</u>	<u>LOT NO(S)</u>
20001	5.01, 5.02, 7
70001	2
70101	6

2/11/2021 5:11:09 PM C:\Users\Timothy.Smith\Documents\Revit Local\18637-414 Gerard Avenue\TS-R19.rvt

 Approximate Area of Import Placement
Beneath the Proposed Matt Slab

 Approximate Area of Import Placement
Behind the Proposed Foundation Walls



1 CELLAR LAYOUT PLAN
SCALE: 1/8" = 1'-0"

EAST 144 STREET

TOP-OF-MAT ELEVATION U.O.N.:	+12'-6"
MAT THICKNESS U.O.N.:	SEE PLAN
CONCRETE STRENGTH- FLOOR SLABS AND BEAMS:	f_c = 6,000 PSI
CONCRETE STRENGTH- WALL AND COLUMNS:	f_c = 6,000 PSI

DRAWING NOTES:

1. PROVIDE f_c = 7 KSI FOR MAT FOUNDATION
2. PROVIDE f_c = 6 KSI FOR FOUNDATION WALL
3. REFER TO FO-100 SERIES FOR FOUNDATION DETAILS
4. REFER TO 5-FO-112 FOR FOUNDATION WALL REINFORCEMENT SCHEDULE
5. ALL ELEVATIONS SHOWN ARE BASED ON NAVD 88.
6. "WF"-DENOTES CONCRETE PIER. SEE 12S-501 FOR REINFORCEMENT AND DETAILS

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3	11/22/2019	100% DESIGN DEVELOPMENT
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1	08/28/19	SCHEMATIC DESIGN

S9ARCHITECTURE
122 8TH AVENUE
NEW YORK, NY 10001
T 212-485-4077
S9ARCHITECTURE.COM

Owner:
THE DOMAN COMPANIES
11 PARK PLACE
NEW YORK, NY 10007
212-991-0001

Owner:
YOREA
11-48 46TH ROAD
LONG ISLAND CITY, NY 11101
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Architect/Interior Designer:
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Structural Engineer / Exterior Consultant:
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140 BROOKDAVE, 23TH FLOOR
NEW YORK, NY 10005
212-535-2211

MEP Engineer:
ETTINGER ENGINEERING ASSOCIATES
505 8TH AVENUE, 24TH FLOOR
NEW YORK, NY 10018
212-244-2410

Civil Engineer:
LANGAN
360 WEST 31ST, 8TH FLOOR
NEW YORK, NY 10001
212-479-5400

Landscape Architect:
FUTURE GREEN STUDIO
18 Bay Street
Brooklyn, NY 11231
718-855-8995

PROJECT TITLE:
414 GERARD AVENUE
414 GERARD AVENUE, BRONX, NY 10451

PROJECT NO: 18637.00
DOB NO: 220613735

DRAWING TITLE:
CELLAR LAYOUT PLAN

SCALE: 1/8" = 1'-0" PAGE: OF

FO-101.00

DOB SCAN TICKER

NOT FOR CONSTRUCTION

06/12/20 CHECKED BY: Checker
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APPENDIX E
CAMP Field Data Sheets and Air Monitoring
Data (CD)
(Included as a separate document)

APPENDIX F
Daily and Monthly Reports
(Included as a separate document)

APPENDIX G
Photograph Log

Photograph Log



Photo 1: View of 3,000-gallon UST and excavated UST grave, facing northwest.
Taken on 12/09/2020



Photo 2: View of site prior to mobilization for excavation activities, facing south.
Taken on 05/07/2021



Photo 3: View of site prior to mobilization for excavation activities, facing northeast.
Taken on 05/07/2021



Photo 4: View of ECD NY Inc. (ECD) loading a truck with construction and demolition (C&D) material for off-site disposal, facing southeast.
Taken on 05/11/2021



Photo 5: View of ECD breaking a foundation wall in the central part of the site, facing northeast.
Taken on 05/14/2021

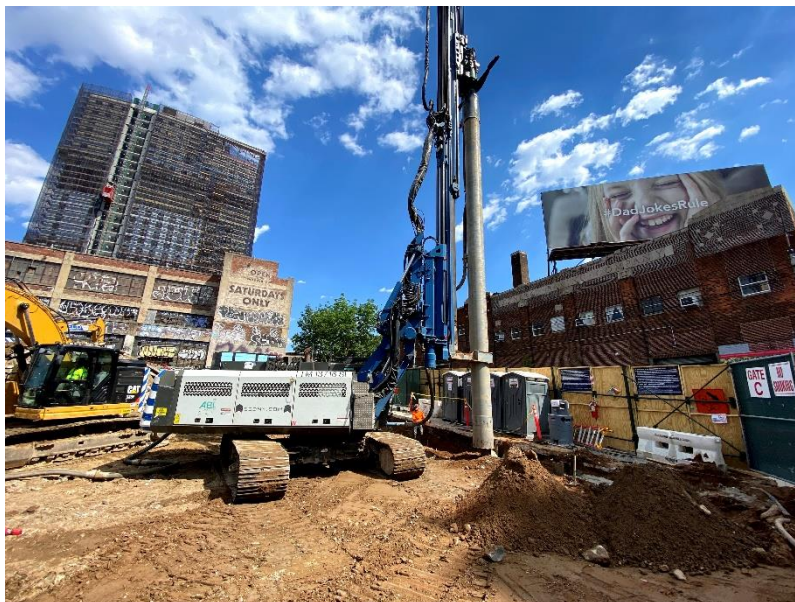


Photo 6: View of ECD installing soldier piles for the support of excavation (SOE), facing southeast.
Taken on 05/18/2021



Photo 7: View of ECD excavating the northeastern part of the site, facing east.
Taken on 05/19/2021

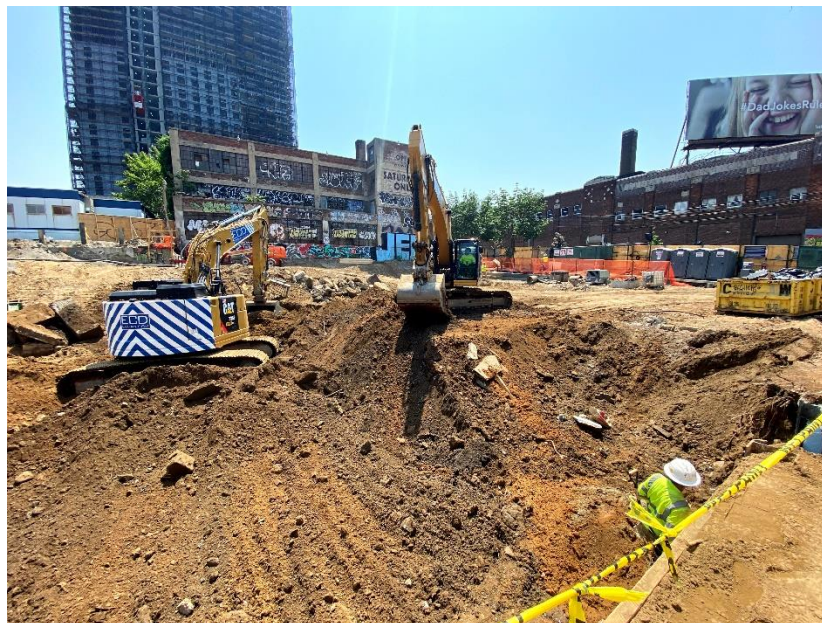


Photo 8: View of excavation in northwestern part of the site, facing southeast.
Taken on 05/26/2021



Photo 9: View of excavation progress, facing east.
Taken on 06/1/2021

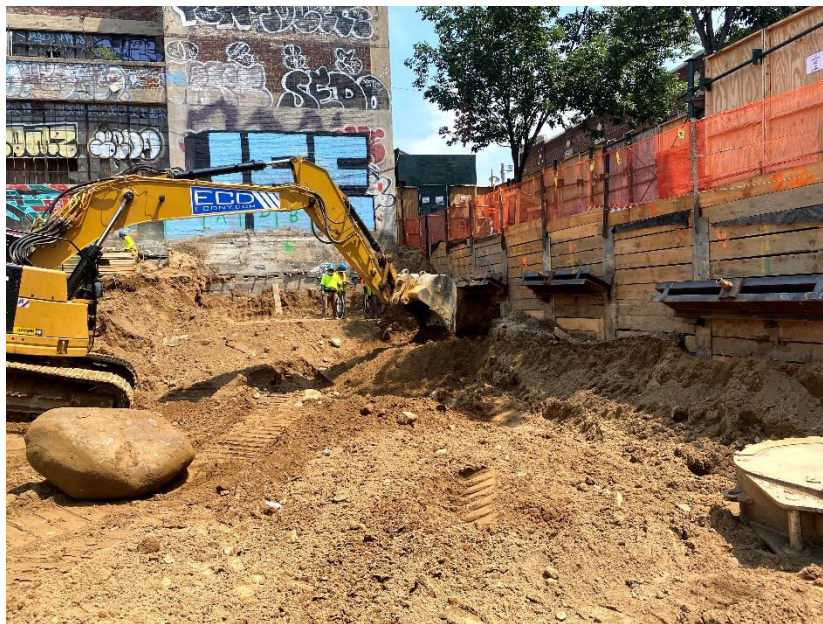


Photo 10: View of ECD excavating for installation of lagging in the southeastern part of the site, facing southeast.
Taken on 7/6/2021



Photo 11: View of ECD loading a truck with non-hazardous soil for off-site disposal, facing southeast.
Taken on 07/20/2021

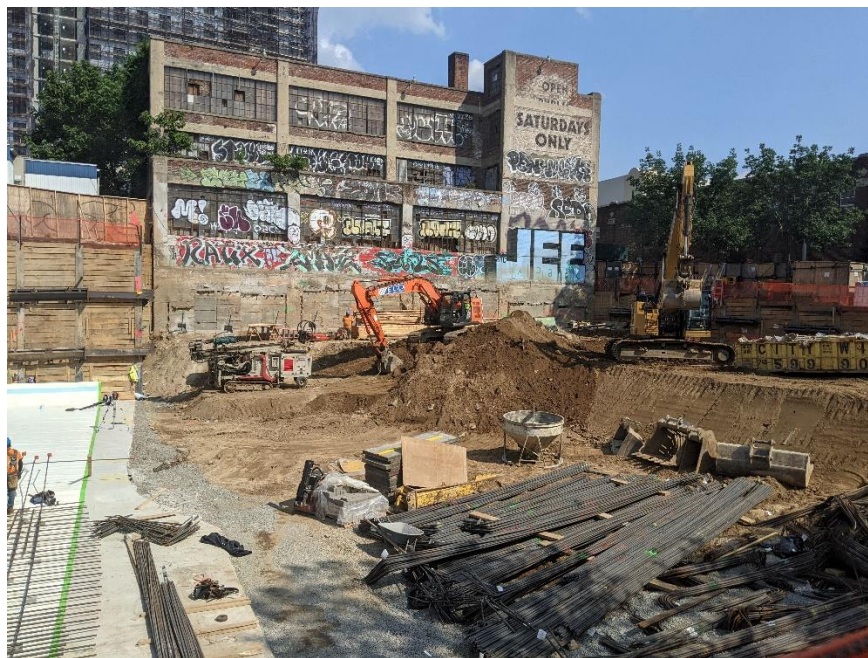


Photo 12: View of ECD grading the northern part of the site, facing southeast.
Taken on 07/28/2021



Photo 13: General view of site progress, facing southeast.
Taken on 08/02/2021

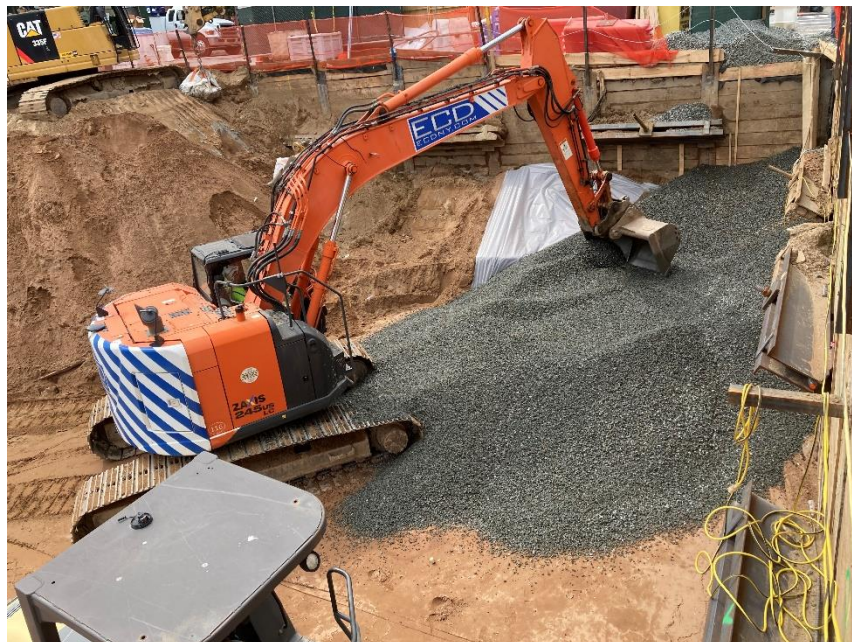


Photo 14: View of 3/4-inch stone placement as a subbase layer in the southwestern corner of the site, facing south.
Taken on 08/07/2021



Photo 15: View of concrete rat slab poured in the central part of the site, facing east.
Taken on 08/18/2021

APPENDIX H
Waste Characterization Report and
Laboratory Analytical Reports

March 29, 2018

Aaron Stickney
125 East 144 Street Holding LLC
c/o Treetop Development
The Glenpointe Centre West
500 Frank W Burr Boulevard
Teaneck, New Jersey

**Re: Waste Characterization Report
414 Gerard Avenue
Bronx, New York
Block 2350, Lot 1
Langan Project No.: 170488401**

Dear Mr. Stickney:

We prepared this Waste Characterization Report in support of the planned development at 414 Gerard Avenue, Bronx, New York (the site). This report summarizes the results of waste characterization soil sampling and can be used to assist the contractor in selecting an appropriate off-site disposal facility or for determining if the material is appropriate for on-site reuse. The waste characterization included the advancement of soil borings and the collection and laboratory analysis of soil samples.

This report documents soil characterization performed throughout the site and includes a description of the site background and sampling methodology, a sample location map, a sample summary, tabulated summaries of analytical results, and boring logs. Additional sampling may be necessary to comply with the sampling frequency and analytical requirements of selected disposal facilities.

BACKGROUND

Site Description

The site is located at 414 Gerard Avenue in the Mott Haven neighborhood of the Bronx, New York, and is identified on the Bronx Borough Tax Map as Block 2350, Lot 1. The about 12,900-square-foot lot is developed with a vacant, one-story former manufacturing building with a partial cellar. A jewelry box manufacturer most recently occupied the building. The site is situated on the southwestern corner of the block bound by East 146th Street to the north, Walton Avenue to the east, East 144th Street to the south, and Gerard Avenue to the west. A 3,000-gallon tank, likely corresponding to New York State Department of Environmental

Conservation [NYSDEC] Petroleum Bulk Storage [PBS] Site No. 2-207209, was observed at the site. A Site Location Map is included as Figure 1.

Sidewalk elevation¹ along Gerard Avenue is about elevation (el) 23 and elevations along East 144th Street slope down from east (about el 29) to west (about el 23). The elevation of the cellar slab is about el 21.5 and the elevation of the first floor is about el 31.5. The elevation of the loading dock off of East 144th Street is about el 26.5. Regional topography generally slopes to the west toward the Harlem River. Approximate elevations and dimensions are provided for reference and should not be considered the final representation of soil/fill quantity and dimensions.

Environmental History

The site was an undeveloped lot until at least 1928. A diner was located in the southern part of the site from 1935 to 1944, and the site was again vacant from 1946 to 1951. The existing on-site building was constructed in the early 1950s, and the site historically operated as a jewelry box manufacturer from at least 1954 to 2016. A 3,000-gallon, No. 2 fuel oil aboveground storage tank (AST) was installed in the partial cellar in 1953 (NYSDEC PBS Site No. 2-207209). Potential contaminants, including petroleum products and hazardous substances, were likely used during historical site operations. Spills or leaks of these contaminants may have impacted the subsurface soil, groundwater, or soil vapor.

Two previous environmental reports were completed for the site:

- *October 3, 2017 Phase I Environmental Site Assessment, prepared by Langan*
- *November 2017 Draft Remedial Investigation Report, prepared by Langan*

The Remedial Investigation Report (RIR) indicates that fill material at the site contains semivolatile organic compounds (SVOC), pesticides, polychlorinated biphenyls (PCBs), and metals at concentrations above the Title 6 of the New York Codes, Rules and Regulations (6 NYCRR) Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs). The findings of the above report should be considered in concert with the findings of this study when characterizing the excavated material. Copies of the previous environmental report are included in Appendix A of the November 2017 RIR.

The site was accepted into the NYSDEC Brownfield Cleanup Program (BCP); therefore, remediation and redevelopment of the site will be subject to the requirements of the BCP and the NYSDEC Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10).

¹ All elevations are referenced to North American Vertical Datum of 1988 (NAVD88) unless otherwise noted.

As part of the June 2009 Lower Concourse Rezoning (City Environmental Quality Review [CEQR] No. 08DCP071X), the site was E-Designated for hazardous materials and noise (E-227). The New York City (NYC) Mayor's Office of Environmental Remediation (OER) is aware of the Requestor's plans to redevelop the site under the BCP.

FIELD INVESTIGATION

The waste characterization investigation was completed between August 28 and September 1, 2017 and included the following:

- Advancement of 12 soil borings
- Collection and analysis of 13 grab soil samples (including one duplicate)
- Collection and analysis of 13 composite soil samples (including one duplicate)
- Analysis of 1 field blank sample and 2 trip blank samples for quality assurance/quality control (QA/QC)

Soil Borings

Twelve soil borings (WCB1 through WCB12) were advanced by AARCO Environmental Services Corp. (AARCO) of Lindenhurst, New York to depths ranging from about 15 to 28 feet below grade surface (bgs) using a direct-push Geoprobe® 6610DT track-mounted drill rig. Six of the borings were advanced from the cellar level (WCB1 through WCB6) and six soil borings were advanced from the first floor (WCB7 through WCB12). Langan personnel observed the drilling, screened soil samples, and collected waste characterization samples for laboratory analysis. Boring locations are shown on Figure 2.

Sample Collection and Analyses

Based on typical disposal facility sample frequency requirements, the site was divided horizontally into four sampling areas (WC01 through WC04), and vertically into three depth intervals, A (fill 0 to 6 feet bgs), B (fill 6 to 12 feet bgs), and C (native soil greater than 12 feet bgs). Three borings were advanced within each sampling area (see Table 1).

Soil was recovered continuously from surface to the bottom of each boring. Samples were collected into 2-, 3-, and/or 4-foot long acetate liners using a 2-inch diameter Macro-Core® sampler. Soil was screened for visual, olfactory, and instrumental evidence of environmental impacts, and was visually classified for soil type, grain size, texture, and moisture content. Instrument screening for the presence of organic vapors was performed using a photoionization detector (PID) equipped with a 10.6 electron volt (eV) lamp. Following sample collection, borings were backfilled with soil cuttings that did not display evidence of environmental impacts. Field observations were documented in boring logs included in Attachment A.

A total of 13 grab (including one duplicate) and 13 composite (including one duplicate) waste characterization samples were collected within the planned excavation area. Grab samples

were collected from the depth interval exhibiting the greatest visual, olfactory, and instrumental evidence of anthropogenic impacts, when observed. Composite samples were collected by combining soil/fill from five discrete samples from multiple borings within the same depth interval. One field blank and two trip blanks were collected for QA/QC purposes.

Samples submitted for volatile organic compound (VOC) and extractable petroleum hydrocarbon (EPH) analyses were collected directly from the acetate liner into laboratory-supplied TerraCore® soil samplers and laboratory-supplied container, respectively. Samples submitted for the remaining analyses were homogenized and collected into laboratory-supplied containers. The sample containers were labeled, placed in a laboratory-supplied cooler, and packed on ice to maintain a temperature of about 4°C. Samples were transported under standard chain-of-custody protocol via laboratory-supplied courier service to Alpha Analytical Laboratories, Inc. (Alpha), a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory in Westborough Massachusetts.

Grab soil samples were analyzed for the following parameters:

- NYSDEC and New Jersey Department of Environmental Protection (NJDEP)-list VOCs
- Extractable petroleum hydrocarbons (EPH).

Composite soil samples were analyzed for the following:

- NYSDEC and NJDEP-list SVOCs polychlorinated biphenyls (PCBs), pesticides, herbicides, and metals (including total cyanide and hexavalent/trivalent chromium)
- Toxicity Characteristic Leaching Procedure (TCLP) metals
- Resource Conservation and Recovery Act (RCRA) characteristics

One composite sample was also analyzed for TCLP VOCs, SVOCs, pesticides, herbicides and paint filter. The field blank was analyzed for VOCs, SVOCs, PCBs, pesticides, herbicides, metals (including total cyanide and hexavalent/trivalent chromium). Trip blanks were analyzed for VOCs. Table 1 provides a summary of samples collected and analyses performed.

FIELD OBSERVATIONS AND ANALYTICAL RESULTS

Subsurface Observations

Fill material was encountered from beneath surface cover to a depth of about 9.5 to 13.5 feet bgs across the site, with the exception of one area in the southwest corner of the site where fill material was observed at 19 feet bgs. The fill predominantly consisted of brown and reddish brown, fine-grained sand with varying amounts of gravel, silt, brick, glass, coal, coal ash, concrete, and slag. Native soil encountered below fill material predominantly consisted of light brown to brown, fine- to medium-grained sand with varying amounts of gravel and silt. Bedrock was not encountered during the waste characterization. No visual, olfactory, or PID indicators of petroleum contamination or other gross contamination were identified in the soil

borings. Soil boring locations are shown on Figure 2, and boring logs are included in Attachment A.

Analytical Results

Laboratory analytical results were compared to the lower of the Title 6 NYCRR Part 375 Residential Use (RU) and Protection of Groundwater (PG) SCOs and the United States Environmental Protection Agency (USEPA) RCRA 40 Code of Federal Regulations (CFR) Part 261.24 Table 1 – Maximum Concentration of Contaminants for the Toxicity Characteristic. Soil sample analytical results are presented in Tables 2, 3, 4, and 5, and the laboratory analytical reports are included in Attachment B. The relevant findings are summarized below:

- Five SVOCs, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene, were detected at concentrations above the SCOs
- VOCs, PCBs, pesticides, herbicides, total metals (including hexavalent/trivalent chromium), and cyanide were not detected at concentrations above the SCOs
- EPH concentrations ranged from non-detect to 542 milligrams per kilogram (mg/kg) in sample WCB10_0-2
- RCRA characteristic hazardous waste was not identified
- Results of the paint filter test were negative

There were no exceedances of RCRA characteristic hazardous waste criteria. Soil excavated from the site should be managed as a regulated, non-hazardous solid waste in New York State. Excavated soil should be handled and transported to a disposal or reuse facility that is permitted to accept this material in accordance with applicable local, state, and federal regulations, including the revised 6 NYCRR Part 360. Trucks used to haul material off-site must have a Part 364 transporter permit.

LIMITATIONS

This report was prepared expressly for 125 East 144 Holding LLC and for the objectives defined herein. Langan cannot assume responsibility for the use of this report for any property other than the specific site addressed in this report, or by any third party without specific written authorization from Langan.

The observations, conclusions, opinions, and recommendations provided in this report are based on subsurface conditions ascertained from the analysis of a limited number of samples. Recommendations provided are contingent upon one another and no recommendation should be followed independent of the others. Actual conditions encountered may differ substantially from those presented herein and should be brought to our attention whereby we may determine how such changes may affect our conclusions, opinions, and recommendations.

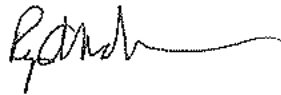
Langan is providing the waste classification data contained herein to assist the excavation Contractor in their efforts to gain approval from facilities for disposal of site material. Based on the facility selected, the Contractor may be required to collect additional samples and have additional laboratory analysis completed. Langan is in no way responsible for management and disposal of material from the site, which includes, but is not limited to, laying out, surveying or maintaining or ensuring the accuracy of waste characterization grids or areas. Handling, grid lay-out, excavation, transport, and disposal of site material is solely the responsibility of the Contractor.

CLOSURE

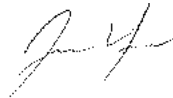
Should you have any questions regarding this report, please contact the undersigned.

Sincerely,

**Langan Engineering, Environmental, Surveying
and Landscape Architecture, D.P.C.**



Ryan Manderbach, CHMM
Associate

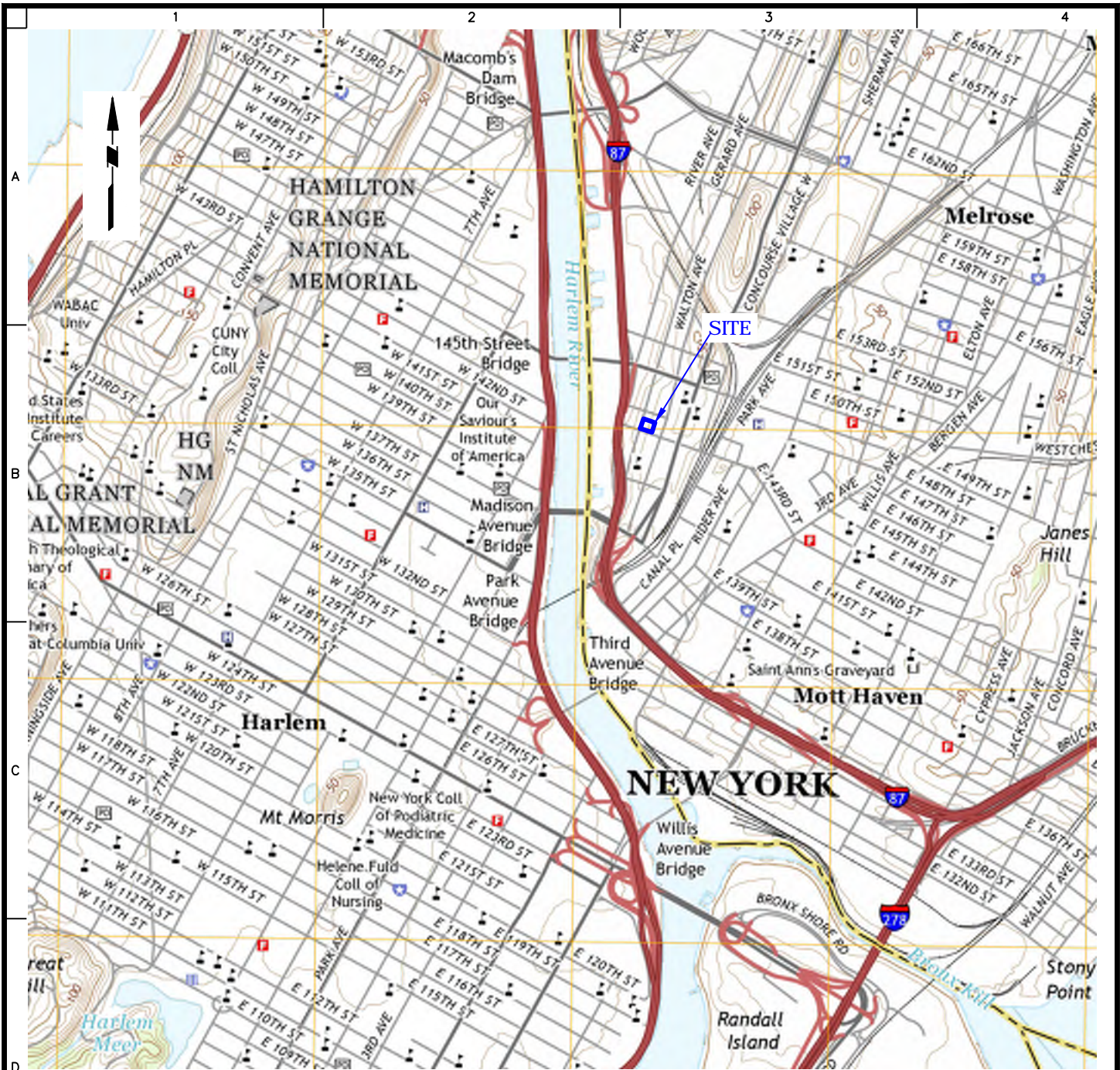


Jason J. Hayes, PE
Principal/Vice President

Enclosures:	Figure 1:	Site Location Map
	Figure 2:	Boring Location Plan
	Table 1:	Sample Summary
	Table 2:	Soil Grab Sample Analytical Results – VOCs and EPH
	Table 3:	Soil Composite Sample Analytical Results – SVOCs
	Table 4:	Soil Composite Sample Analytical Results – PCBs, Pesticides, Herbicides, and Total Metals
	Table 5:	Soil Composite Sample Analytical Results –TCLP and RCRA Characterization
	Attachment A:	Soil Boring Logs
	Attachment B:	Laboratory Analytical Reports

cc: Brian Gochenaur, Julia Leung, File – Langan

Figures



— APPROXIMATE SITE BOUNDARY

NOTE: BASE MAP IS REFERENCED FROM THE UNITED STATES GEOLOGICAL SURVEY (USGS) 7.5 MINUTE SERIES CENTRAL PARK QUADRANGLE MAP, DATED 2016

LANGAN
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 Langan International LLC
 Collectively known as Langan

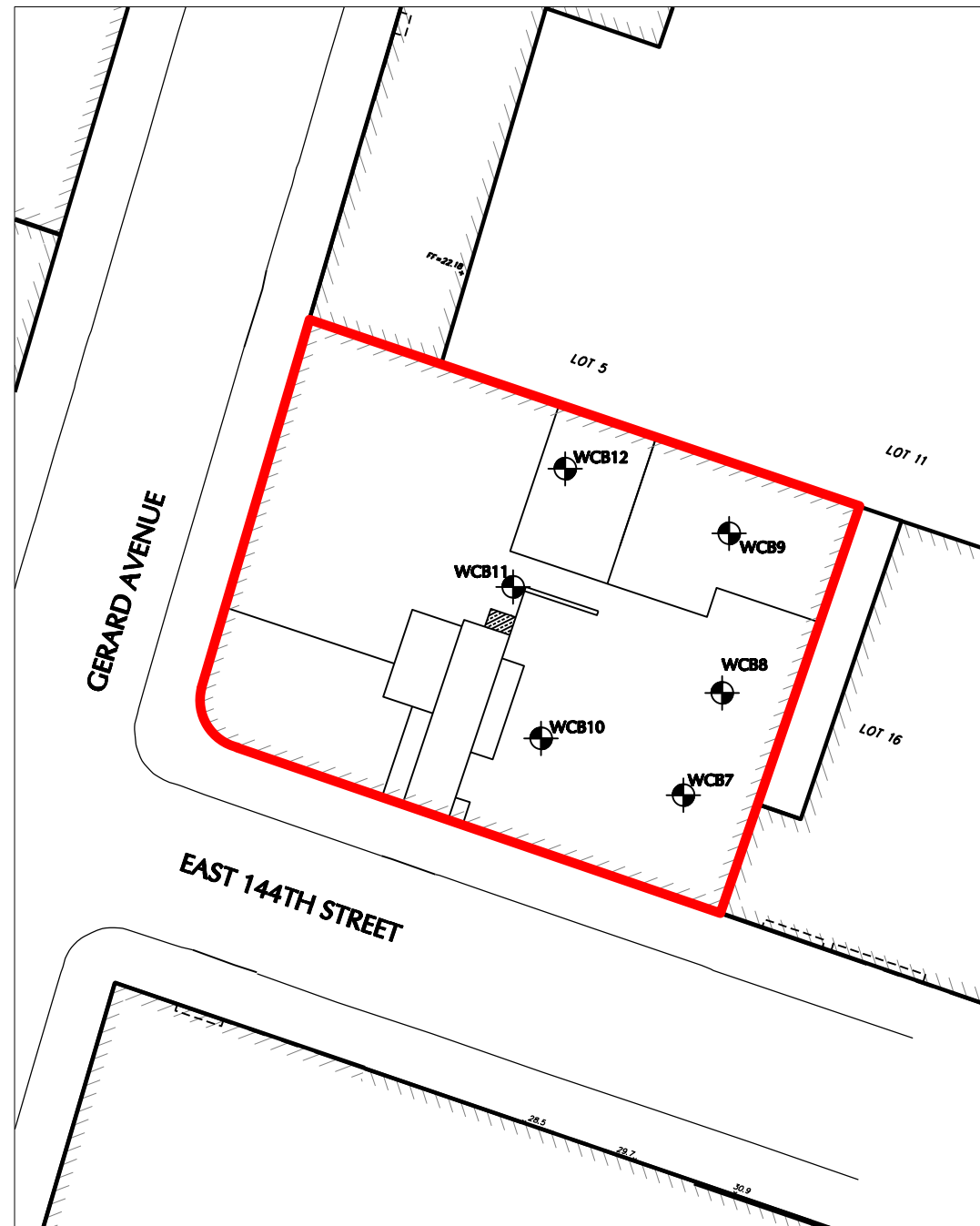
Project
414 GERARD AVENUE
 BLOCK No. 2350 LOT No. 1
 BRONX NEW YORK

Figure Title
**SITE LOCATION
 MAP**

Project No. 170488401	Figure No.
Date 08/28/2017	1
Scale N.T.S	
Drawn By ALS	Checked By MLR
Submission Date -	Sheet 1 of 2

CELLAR LEVEL

FIRST FLOOR



LEGEND:

- APPROXIMATE SITE BOUNDARY
- BORING LOCATIONS

NOTES:

1. THE BASEMAP IS REFERENCED FROM THE SURVEY PREPARED BY LANGAN DATED OCTOBER 10, 2017.
2. SAMPLE LOCATIONS ARE BASED ON FIELD MEASUREMENTS.
3. THE WASTE CHARACTERIZATION WAS COMPLETED BETWEEN AUGUST 28 AND SEPTEMBER 1, 2017.

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.



LANGAN

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 Langan Engineering and Environmental Services, Inc.
 Langan CT, Inc.
 Langan International LLC
 Collectively known as Langan

Project

414 GERARD AVENUE
 BLOCK 2350, LOT 1

BRONX

Figure Title

BORING LOCATION PLAN

NEW YORK

Project No.
170488401

Date
09/05/2017

Scale
1" = 40'

Drawn By
VZ

Checked By
MLR

Submission Date

Figure No.

2

Sheet 2 of 2

Tables

Table 1 - Sample Summary
Waste Characterization Report
414 Gerard Avenue
Bronx, New York
Langan Project No.: 170488401

Sample ID	Grid Borings	Sample Depth (feet bgs)	Sample Elevation (feet NAVD88)	Analysis
Grab Samples				
Cellar Level				
WCB4_5-6	WCB4	5-6	15.5-16.5	TCL/Part 375/NJDEP VOCs, EPH
WCB5_10-12	WCB5	10-12	9.5-11.5	
WCB6_20-22	WCB6	20-22	-0.5-1.5	
WCB3_2-3	WCB3	2-3	18.5-19.5	
WCB2_8-9	WCB2	8-9	12.5-13.5	
WCB1_20-22	WCB1	20-22	-0.5-1.5	
First Floor				
WCB9_0-2	WCB9	0-2	29.5-31.5	TCL/Part 375/NJDEP VOCs, EPH
WCB11_10-12	WCB11	10-12	19.5-21.5	
WCB12_26-28	WCB12	26-28	3.5-5.5	
WCB10_0-2	WCB10	0-2	29.5-31.5	
WCB8_5-7	WCB8	5-7	24.5-26.5	
WCB8_13-15	WCB8	13-15	16.5-18.5	
Composite Samples				
Cellar Level				
WC01A_COMP_0-6	WCB4, WCB5, WCB6	0-6	15.5-21.5	TCL/Part 375/NJDEP SVOCs, PCBs, Pesticides, Herbicides, Total Cyanide, Hexavalent/Trivalent Chromium, TAL/Part 375 Metals, TCLP Metals, RCRA Characteristics
WC01B_COMP_6-12		6-12	9.5-15.5	
WC01N_COMP_12-22		12-22	-0.5-9.5	
WC02A_COMP_0-6	WCB1, WCB2, WCB3	0-6	15.5-21.5	
WC02B_COMP_6-12		6-12	9.5-15.5	
WC02N_COMP_12-22		12-22	-0.5-9.5	
First Floor				
WC03A_COMP_0-6	WCB9, WCB11, WCB12	0-6	25.5-31.5	TCL/Part 375/NJDEP SVOCs, PCBs, Pesticides, Herbicides, Total Cyanide, Hexavalent/Trivalent Chromium, TAL/Part 375 Metals, TCLP Metals, RCRA Characteristics
WC03B_COMP_6-12		6-12	19.5-25.5	
WC03N_COMP_12-22		12-22	9.5-19.5	
WC04A_COMP_0-5	WCB7, WCB8, WCB10	0-5	26.5-31.5	TCL/Part 375/NJDEP SVOCs, PCBs, Pesticides, Herbicides, Total Cyanide, Hexavalent/Trivalent Chromium, TAL/Part 375 Metals, TCLP VOCs, SVOCs, Pesticides, Herbicides, RCRA Characteristics, and Paint Filter
WC04B_COMP_5-10		5-10	21.5-26.5	
WC04N_COMP_10-15		10-15	16.5-21.5	
QA/QC Samples				
WCFB01_090117	NA	NA	NA	TCL/Part 375 VOCs, SVOCs, PCBs, Pesticides, Herbicides, Total Cyanide, Hexavalent/Trivalent Chromium, TAL/Part 375 Metals
WCDUP01_GRAB_083117	WCB2	8-9	12.5-13.5	TCL VOCs & EPH
WCDUP01_COMP_083117	WCB1, WCB2, WCB3	12-22	-0.5-9.5	TCL/Part 375/NJDEP SVOCs, PCBs, Pesticides, Herbicides, Total Cyanide, Hexavalent/Trivalent Chromium, TAL/Part 375 Metals, TCLP Metals, RCRA Characteristics
WCTB01_083117	NA	NA	NA	TCL VOCs
WCTB02_090117	NA	NA	NA	TCL VOCs

Notes:

1. Soil samples analyzed for VOCs were collected using TerraCore® sampler kits.
2. VOCs = Volatile Organic Compounds
3. SVOCs = Semivolatile Organic Compounds
4. PCBs = Polychlorinated Biphenyls
5. TCL = Target Compound list
6. TAL = Target Analyte List
7. QA/QC = Quality Assurance/Quality Control
8. NA = not applicable
9. bgs = below grade surface
10. NJDEP = New Jersey Department of Environmental Protection
11. Part 375 = Title 6 of the New York Codes, Rules and Regulations Part 375 Listed Compounds
12. EPH = Extractable Petroleum Hydrocarbons
13. TCLP = Toxicity Characteristic Leaching Procedure
14. RCRA = Resource Conservation and Recovery Act
15. WCDUP01_GRAB_083117 is a duplicate sample of WCB2_8-9.
16. WCDUP01_COMP_083117 is a duplicate sample of WC01N_COMP_12-22.
17. Elevations are in North American Vertical Datum of 1988 (NAVD88).
18. Cellar level is at about elevation (el) 21.5 feet NAVD88. First floor is at about el 31.5 feet NAVD88.

Table 3 - Soil Composite Sample Analytical Results - SVOCs
Waste Characterization Report
414 Gerard Avenue
Bronx, New York
Langan Project No.: 170488401

SAMPLE ID	Lower of RU/PG Part 375 SCOs	WC01A_COMP_0-6 8/31/2017 L1730852-01 0-6	WC01B_COMP_6-12 8/31/2017 L1730852-02 6-12	WC01N_COMP_12-22 8/31/2017 L1730852-03 12-22	WCDUP01_COMP_083117 8/31/2017 L1730852-04 12-22	WC02A_COMP_0-6 8/31/2017 L1730852-08 0-6	WC02B_COMP_6-12 8/31/2017 L1730852-09 6-12	WC02N_COMP_12-22 8/31/2017 L1730852-10 12-22	WC03A_COMP_0-6 9/1/2017 L1731032-01 0-6	WC03B_COMP_6-12 9/1/2017 L1731032-02 6-12	WC03N_COMP_12-28 9/1/2017 L1731032-03 12-28	WC04A_COMP_0-5 9/1/2017 L1731032-07 0-5	WC04B_COMP_5-10 9/1/2017 L1731032-08 5-10	WC04N_COMP_10-15 9/1/2017 L1731032-09 10-15	
Semivolatile Organic Compounds (mg/kg)															
1,2,4,5-Tetrachlorobenzene	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
1,2,4-Trichlorobenzene	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
1,2-Dichlorobenzene	1.1	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
1,3-Dichlorobenzene	2.4	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
1,4-Dichlorobenzene	1.8	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
2,3,4,6-Tetrachlorophenol	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
2,4,5-Trichlorophenol	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
2,4,6-Trichlorophenol	~	0.1	U	0.1	U	0.11	U	0.1	U	0.13	U	0.1	U	0.1	U
2,4-Dichlorophenol	~	0.16	U	0.15	U	0.16	U	0.16	U	0.19	U	0.15	U	0.15	U
2,4-Dimethylphenol	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
2,4-Dinitrophenol	~	0.84	U	0.81	U	0.85	U	0.84	U	1	U	0.82	U	0.81	U
2,4-Dinitrotoluene	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
2,6-Dinitrotoluene	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
2-Chloronaphthalene	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
2-Chlorophenol	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
2-Methylnaphthalene	~	0.21	U	0.2	U	0.21	U	0.21	U	0.25	U	0.2	U	0.2	U
2-Methylphenol	0.33	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
2-Nitroaniline	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
2-Nitrophenol	~	0.38	U	0.36	U	0.38	U	0.38	U	0.46	U	0.37	U	0.36	U
3,3'-Dichlorobenzidine	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
3-Methylphenol/4-Methylphenol	0.33	0.25	U	0.24	U	0.26	U	0.25	U	0.3	U	0.24	U	0.24	U
3-Nitroaniline	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
4,6-Dinitro-o-cresol	~	0.45	U	0.44	U	0.46	U	0.43	U	0.55	U	0.44	U	0.44	U
4-Bromophenyl phenyl ether	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
4-Chloroaniline	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
4-Chlorophenyl phenyl ether	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
4-Nitroaniline	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
4-Nitrophenol	~	0.24	U	0.24	U	0.25	U	0.23	U	0.3	U	0.24	U	0.24	U
Acenaphthene	98	0.14	U	0.13	U	0.14	U	0.14	U	0.17	U	0.14	U	0.13	U
Acenaphthylene	100	0.14	U	0.13	U	0.14	U	0.13	U	0.17	U	0.13	U	0.13	U
Acetophenone	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
Anthracene	100	0.1	U	0.1	U	0.11	U	0.1	U	0.13	U	0.1	U	0.1	U
Atrazine	~	0.14	U	0.13	U	0.14	U	0.14	U	0.17	U	0.14	U	0.14	U
Azobenzene	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
Benzaldehyde	~	0.23	U	0.22	U	0.23	U	0.22	U	0.28	U	0.22	U	0.22	U
Benzidine	~	0.57	U	0.56	U	0.58	U	0.57	U	0.7	U	0.56	U	0.56	U
Benzo(a)anthracene	1	0.12	J	0.1	U	0.11	U	0.1	U	0.13	U	0.05	J	0.1	U
Benzo(a)pyrene	1	0.11	J	0.13	U	0.14	U	0.14	U	0.17	U	0.34	J	0.13	U
Benzo(b)fluoranthene	1	0.14	J	0.1	U	0.11	U	0.1	U	0.13	U	0.43	J	0.1	U
Benzo(ghi)perylene	100	0.071	J	0.13	U	0.14	U	0.14	U	0.17	U	0.19	J	0.13	U
Benzo(k)fluoranthene	1	0.04	J	0.1	U	0.11	U	0.1	U	0.13	U	0.14	J	0.1	U
Benzoic Acid	~	0.56	U	0.55	U	0.57	U	0.54	U	0.68	U	0.54	U	0.54	U
Benzyl Alcohol	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
Biphenyl	~	0.4	U	0.38	U	0.4	U	0.38	U	0.48	U	0.39	U	0.38	U
Bis(2-chloroethoxy)methane	~	0.19	U	0.18	U	0.19	U	0.19	U	0.23	U	0.18	U	0.18	U
Bis(2-chloroethyl)ether	~	0.16	U	0.15	U	0.16	U	0.16	U	0.19	U	0.15	U	0.15	U
Bis(2-chloroisopropyl)ether	~	0.21	U	0.2	U	0.21	U	0.2	U	0.25	U	0.2	U	0.2	U
Bis(2-ethylhexyl)phthalate	~	0.33	U	0.17	U	0.18	U	0.17	U	0.21	J	0.17	U	0.17	U
Butyl benzyl phthalate	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	J	0.17	U	0.17	U
Caprolactam	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
Carbazole	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
Chrysene	1	0.1	J	0.1	U	0.11	U	0.1	U	0.13	U	0.39	J	0.1	U
Di-n-butylphthalate	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	J	0.17	U	0.17	U
Di-n-octylphthalate	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	J	0.17	U	0.17	U
Dibenz(a,h)anthracene	0.33	0.1	U	0.1	U	0.11	U	0.1	U	0.13	U	0.054	J	0.1	U
Dibenzofuran	14	0.17	U	0.17	U	0.18	U	0.17	U	0.21	J	0.17	U	0.17	U
Diethyl phthalate	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	J	0.17	U	0.17	U
Dimethyl phthalate	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	J	0.17	U	0.17	U
Fluoranthene	100	0.2	U	0.1	U	0.11	U	0.1	U	0.13	U	0.67	J	0.1	U
Fluorene	100	0.17	U	0.17	U	0.18	U	0.17	U	0.21	J	0.17	U	0.17	U
Hexachlorobenzene	0.33	0.1	U	0.1	U	0.11	U	0.1	U	0.13	U	0.1	U	0.1	U
Hexachlorobutadiene	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
Hexachlorocyclopentadiene	~	0.5	U	0.48	U	0.51	U	0.5	U	0.6	U	0.49	U	0.48	U
Hexachloroethane	~	0.14	U	0.13	U	0.14	U	0.14	U	0.17	U	0.14	U	0.13	U
Indeno(1,2,3-cd)pyrene	0.5	0.076	J	0.13	U	0.14	U	0.14	U	0.17	U	0.2	J	0.13	U
Isophorone	~	0.16	U	0.15	U	0.16	U	0.16	U	0.19	U	0.15	U	0.15	U
n-Nitrosodi-n-propylamine	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	U	0.17	U	0.17	U
n-Nitrosodimethylamine	~	0.35	U	0.34	U	0.35	U	0.35	U	0.42	U	0.34	U	0.34	U
Naphthalene	12	0.17	U	0.17	U	0.18	U	0.17	U	0.21	J	0.17	U	0.17	U
NDPA/DPA	~	0.14	U	0.13	U	0.14	U	0.14	U	0.17	J	0.14	U	0.13	U
Nitrobenzene	~	0.16	U	0.15	U	0.16	U	0.15	U	0.19	J	0.15	U	0.15	U
p-Chloro-m-cresol	~	0.17	U	0.17	U	0.18	U	0.17	U	0.21	J	0.17	U	0.17	U
Pentachlorophenol	0.8	0.14	U	0.13	U	0.14	U	0.14	U	0.17	J	0.13	U	0.13	U
Phenanthrene	100	0.13	U	0.1	U	0.11	U	0.1	U	0.13	J	0.1	U	0.11	U
Phenol	0.33	0.17	U	0.17	U	0.18	U	0.17	U	0.21	J	0.17	U	0.17	U
Pyrene	100	0.19	U	0.1	U	0.11	U	0.1	U	0.13	J	0.074	J	0.1	U

Notes:
1. Soil sample analytical results are compared to the lower of New York Codes, Rules and Regulations (NYCRR) Part 375 Residential Use (RU) and Protection of Groundwater (PG) Soil Cleanup Objective (SCOs).
2. mg/kg = milligrams per kilogram
3. ~ = no regulatory limit has been established for this compound.

4. Results that exceed the criteria shown are shaded and bolded.
5. Reporting limits for undetected results above the the lower of RU and PG SCOs are italicized.
6. bgs = below grade surface
7. WCDUP01_COMP_083117 is a duplicate sample of WC01N_COMP_12-22.

Qualifiers:
J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.
U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

Table 5 - Soil Composite Sample Analytical Results - TCLP and RCRA Characteristics
Waste Characterization Report
414 Gerard Avenue
Bronx, New York
Langan Project No.: 170488401

SAMPLE ID	EPA Toxicity Characteristic	WC01A_COMP_0-6	WC01B_COMP_6-12	WC01N_COMP_12-22	WCDUP01_COMP_083117	WC02A_COMP_0-6	WC02B_COMP_6-12	WC02N_COMP_12-22	WC03A_COMP_0-6	WC03B_COMP_6-12	WC03N_COMP_12-28	WC04A_COMP_0-5	WC04B_COMP_5-10	WC04N_COMP_10-15	
SAMPLING DATE	Regulatory Levels	8/31/2017	8/31/2017	8/31/2017	8/31/2017	8/31/2017	8/31/2017	8/31/2017	9/1/2017	9/1/2017	9/1/2017	9/1/2017	9/1/2017	9/1/2017	
LAB SAMPLE ID		L1730852-01	L1730852-02	L1730852-03	L1730852-04	L1730852-08	L1730852-09	L1730852-10	L1731032-01	L1731032-02	L1731032-03	L1731032-07	L1731032-08	L1731032-09	
SAMPLE DEPTH (FEET BGS)		0-6	6-12	12-22	12-22	0-6	6-12	12-22	0-6	6-12	12-28	0-5	5-10	10-15	
TCLP Volatile Organic Compounds (mg/L)															
1,1-Dichloroethene	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005	U	NA	
1,2-Dichloroethane	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005	U	NA	
1,4-Dichlorobenzene	7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.025	U	NA	
2-Butanone	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05	U	NA	
Benzene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005	U	NA	
Carbon tetrachloride	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005	U	NA	
Chlorobenzene	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005	U	NA	
Chloroform	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0075	U	NA	
Tetrachloroethene	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005	U	NA	
Trichloroethene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005	U	NA	
Vinyl chloride	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01	U	NA	
TCLP Semivolatile Organic Compounds (mg/L)															
2,4,5-Trichlorophenol	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.025	U	NA	
2,4,6-Trichlorophenol	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.025	U	NA	
2,4-Dinitrotoluene	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.025	U	NA	
2-Methylphenol	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.025	U	NA	
3-Methylphenol/4-Methylphenol	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.025	U	NA	
Hexachlorobenzene	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01	U	NA	
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01	U	NA	
Hexachloroethane	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01	U	NA	
Nitrobenzene	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01	U	NA	
Pentachlorophenol	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05	U	NA	
Pyridine	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.018	U	NA	
TCLP Pesticides (mg/L)															
Chlordane	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	U	NA	
Endrin	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0002	U	NA	
Heptachlor	0.008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0001	U	NA	
Heptachlor epoxide	0.008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0001	U	NA	
Lindane	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0001	U	NA	
Methoxychlor	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	U	NA	
Toxaphene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	U	NA	
TCLP Herbicides (mg/L)															
2,4,5-TP (Silvex)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005	U	NA	
2,4-D	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.025	U	NA	
TCLP Metals (mg/L)															
Arsenic	5	1	U	0.036	J	1	U	0.025	J	0.022	J	1	U	1	U
Barium	100	0.436	J	0.3	J	0.352	J	0.379	J	0.242	J	0.315	J	0.281	J
Cadmium	1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Chromium	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.028	J	0.2	U
Lead	5	0.215	J	0.5	U	0.5	U	0.5	U	0.5	U	0.517	J	0.5	U
Mercury	0.2	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Selenium	1	0.035	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Silver	5	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
RCRA Characteristics															
pH (SU)	~	10.7		7.7		8.5		8.3		8.2		8.4		8.6	
Paint Filter Liquid	~	NA		NA		NA		NA		NA		NA		NA	
Ignitability	~	NI	U	NI	U	NI	U	NI	U	NI	U	NI	U	NI	U
Reactive Cyanide	~	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Reactive Sulfide	~	10	U	10	U	10	U	10	U	10	U	10	U	10	U

Notes:
1. Soil sample analytical results are compared to the United States Environmental Protection Agency (USEPA) Resource Conservation and Recovery Act (RCRA) 40 Code of Federal Regulations (CFR) Part 261.24 Table 1 - Maximum Concentration of Contaminants for the Toxicity Characteristic.
2. ~ = no regulatory limit has been established for this analyte.
3. Results were not detected above EPA Toxicity Characteristic Regulatory Levels.
4. TCLP = Toxicity Characteristic Leaching Procedure
5. NA = not analyzed
6. NI = not ignitable
7. SU = standard units
8. mg/L = milligram per liter
9. RCRA = Resource Conservation and Recovery Act

Qualifiers:
J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.
U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

Attachment A

Soil Boring Logs

Project 414 Gerard Ave.		Project No. 170488401	
Location Bronx, NY		Elevation and Datum NA	
Drilling Company AARCO Environmental Services Corp.		Date Started 8/30/17	Date Finished 8/30/17
Drilling Equipment Geoprobe 6610DT		Completion Depth 24 ft	Rock Depth NA
Size and Type of Bit 2-inch direct push macrocore cutting shoe		Number of Samples 8	Disturbed 8 Undisturbed NA Core NA
Casing Diameter (in) NA	Casing Depth (ft) NA	Water Level (ft.) First 20	Completion NA 24 HR. NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Daybi Moreno
Sampler 3-foot stainless steel macrocore sampler		Field Engineer Veronica Zuluaga	
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA	

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MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist Bl/In		
	6-inch concrete slab	0					0.5	Background PID ~0.5 ppm
	R1 (0-12") loose, light brown, fine SAND, trace silt, (dry)[FILL]	1	R1	MACROCORE	12/36	NA	0.5	
	R2 (0-21") loose, light brown, fine SAND, (dry)[FILL]	2						Collect grab sample WC02A_COMP_0-8
		3						
		4	R2	MACROCORE	21/36	NA	0.6	
		5					0.6	
	R3 (0-24") loose, light brown, fine SAND, (dry)[FILL]	6					0.6	Collect grab sample WC02B_COMP_8-16
		7	R3	MACROCORE	24/36	NA	0.6	
		8					0.6	
		9					0.6	
	R4a (0-5") loose, light brown, fine SAND, some fine gravel, (dry) R4b (5-12") loose, reddish-brown, fine SAND, some fine gravel, trace mica-schist, (dry) R4c (12-14") loose, off-white, fine SAND, (dry)[FILL]	10	R4	MACROCORE	24/36	NA	0.5	
		11					0.6	
		12					0.6	
		13					0.6	
	R4d (14-24") loose, reddish-brown, fine SAND, trace fine gravel, trace mica-schist, (dry)[SAND] R5a (0-6") loose, light brown, fine SAND, trace fine gravel, (dry) R5b (6-12") loose, whitish-brown, medium SAND, trace mica-schist, trace fine gravel, (dry) R5c (12-14") loose, brown, fine SAND, trace silt, trace fine gravel, trace schist, (dry) R5d (14-22") loose, gray, fine SAND, trace fine gravel, (dry)[SAND]	14	R5	MACROCORE	27/36	NA	0.5	
		15					0.5	
	R5e (22-27") loose, coarse, GRAVEL, trace mica-schist, trace fine SAND, (dry)[SAND]	16	R6	MACROCORE	26/36	NA	0.5	
		17					0.5	
	R6 (0-26") loose, banded, [light brown, off-white, light brown, reddish-brown, light brown], fine SAND, trace mica-schist, trace fine gravel, (dry)[SAND]	18					0.5	
		19	R7	MACROCORE	23/36	NA	0.5	
	R7a (0-4") loose, light brown, fine SAND, trace fine gravel, (dry) R7b (4-8") loose, banded, off-white, medium SAND, trace mica-schist, (dry) R7c (8-23") loose, brown, fine SAND, trace silt, trace fine gravel,	20					0.5	

Project		Project No.				
414 Gerard Ave.		170488401				
Location		Elevation and Datum				
Bronx, NY		NA				
MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data			Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	PID Reading (ppm)	
	(moist)[SAND]	20	R7			Collect grab sample WC02N_COMP_16-24
		21				
	R8a (0-5") loose, brown, fine SAND, some medium sand, trace fine gravel, trace mica-schist, (moist)[SAND]	22	R8			EOB 24' bgs - borehole backfilled to surface grade
	R8b (5-21") dense, gray-brown TILL, trace fine gravel (moist)[TILL]	23	MACROCORE	23/36		
		24		21/36	NA	
		25				
		26				
		27				
		28				
		29				
		30				
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Project 414 Gerard Ave.		Project No. 170488401	
Location Bronx, NY		Elevation and Datum NA	
Drilling Company AARCO Environmental Services Corp.		Date Started 8/30/17	Date Finished 8/30/17
Drilling Equipment Geoprobe 6610DT		Completion Depth 18 ft	Rock Depth NA
Size and Type of Bit 2-inch direct push macrocore cutting shoe		Number of Samples	Disturbed 6 Undisturbed NA Core NA
Casing Diameter (in) NA	Casing Depth (ft) NA	Water Level (ft.) First 18	Completion NA 24 HR. NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Daybi Moreno
Sampler 3-foot stainless steel macrocore sampler			Field Engineer Veronica Zuluaga
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA	

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MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist Bl/ft		
	6-inch concrete slab	0					0.4	Background PID levels ~0.5 ppm
	R1a (0-2") loose, gray, CONCRETE, (dry), [FILL] R1b (2-14") loose, reddish-brown, fine SAND, (dry)[FILL]	1	R1	MACROCORE	14/36	NA	0.4	
		2						
		3						
	R2a (0-5") loose, gray, CONCRETE, some fine SAND, (dry), R2b (5-20") loose, light brown, fine SAND, (dry)[FILL]	4	R2	MACROCORE	20/36	NA	0.4	
		5					0.4	
		6					0.4	
	R3 (0-29") loose, light brown, fine SAND, (dry)[FILL]	7	R3	MACROCORE	29/36	NA	0.5	
		8					0.5	
		9					0.5	
		10					0.5	
	R4a (0-10") loose, light brown, fine SAND, (dry) R4b (10-16") loose, gray-brown, fine SAND, some crushed schist, (dry) R4c (16-24") medium dense, reddish-brown, fine SAND, trace fibers, trace silt, trace fine gravel, (dry) R4d (24-29") loose, light brown, fine SAND, (dry)[FILL]	11	R4	MACROCORE	29/36	NA	0.5	
		12					0.5	
		13					0.4	
	R5a (0-5") loose, light brown, fine SAND, (dry) R5b (5-20") medium dense, light brown, fine SAND, trace schist, (dry)[FILL] R5c (20-22") loose, white, coarse SAND, some coarse gravel, trace fine SAND, (dry) R5d (22-28") loose, mottled light brown over white, fine SAND, trace fine gravel (dry)[SAND]	14	R5	MACROCORE	28/36	NA	0.5	
		15					0.5	
		16					0.6	
		17					0.4	
	R6a (0-8") loose, light brown, fine SAND, trace fine gravel, (dry) R6b (8-25") loose, tan, fine SAND, trace fine gravel, trace medium sand, trace mica-schist, (dry) R6c (25-27") loose, brown, fine SAND, (moist)[SAND]	18	R6	MACROCORE	27/36	NA	0.5	
		19					0.5	
		20					0.5	
							0.5	Hit refusal at 18' EOB 18' bgs- borehole backfilled to surface grade

Project 414 Gerard Ave.		Project No. 170488401	
Location Bronx, NY		Elevation and Datum NA	
Drilling Company AARCO Environmental Services Corp.		Date Started 8/30/17	Date Finished 8/30/17
Drilling Equipment Geoprobe 6610DT		Completion Depth 24 ft	Rock Depth NA
Size and Type of Bit 2-inch direct push macrocore cutting shoe		Number of Samples 8	Disturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Core NA
Casing Hammer NA		Weight (lbs) NA	Drop (in) NA
Sampler 3-foot stainless steel macrocore sampler		Water Level (ft.) First 20	Completion NA
Sampler Hammer NA		Weight (lbs) NA	Drop (in) NA
		Drilling Foreman Daybi Moreno	
		Field Engineer Veronica Zuluaga	

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MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist Bl/6in		
	6-inch concrete slab	0					0.3	Background PID ~0.4 ppm
	R1 (0-10") loose, reddish-brown, fine SAND, (dry)[FILL]	1	R1	MACROCORE	10/36	NA	0.3	
		2						
		3						
	R2 (0-21") loose, light brown, fine SAND, (dry)[FILL]	4	R2	MACROCORE	21/36	NA	0.4	
		5					0.4	
		6					0.4	
	R3 (0-30") loose, light brown, fine SAND, (dry)[FILL]	7	R3	MACROCORE	30/36	NA	0.4	
		8					0.4	
		9					0.4	
	R4a (0-24") loose, light brown, fine SAND, (dry)	10	R4	MACROCORE	30/36	NA	0.4	
	R4b (24-30") medium dense, reddish-brown SAND, trace fine gravel, (dry)[FILL]	11					0.4	
		12					0.4	
	R5a (0-14") medium dense, reddish-brown, fine SAND, trace fine gravel, trace mica schist, (dry)[FILL]	13	R5	MACROCORE	16/36	NA	0.4	
	R5b (14-16") loose, white, fine SAND, some crushed schist, (dry)[SAND]	14					0.4	
		15					0.3	
		16						
	R6 (0-16") medium dense, light brown, fine SAND, trace fine gravel, trace mica-schist, (dry)[SAND]	17	R6	MACROCORE	16/36	NA	0.4	
		18					0.4	
		19					0.4	
	R7a (0-12") medium dense, reddish-brown, fine SAND, trace mica schist, (dry)	20	R7	MACROCORE	17/36	NA		

Project		Project No.					
414 Gerard Ave.		170488401					
Location		Elevation and Datum					
Bronx, NY		NA					
MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/6in	
[Pattern]	R7b (12-14") loose, black, fine SAND, trace schist, (moist), R7c (14-17") dense, brown, silty SAND, some fine gravel, (moist)[SAND]	20	R7		17/36		
		21					0.4
		22	R8	MACROCORE	12/36	NA	0.4
	R8 (0-12") dense, brown, fine SAND, some silt, some fine gravel, trace coarse gravel, trace crushed mica-schist, (moist)[SAND]	23					0.5
		24					0.5
		25					
		26					
		27					
		28					
		29					
		30					
		31					
		32					
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EOB 24' bgs - borehole backfilled to surface grade

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Project 414 Gerard Ave.				Project No. 170488401			
Location Bronx, NY				Elevation and Datum NA			
Drilling Company AARCO Environmental Services Corp.				Date Started 8/30/17		Date Finished 8/30/17	
Drilling Equipment Geoprobe 6610DT				Completion Depth 24 ft		Rock Depth NA	
Size and Type of Bit 2-inch direct push macrocore cutting shoe				Number of Samples 8		Disturbed NA	Core NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First 20		Completion NA	24 HR. NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Daybi Moreno	
Sampler 3-foot stainless steel macrocore sampler				Field Engineer Veronica Zuluaga			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist Bl/In		
	6-inch concrete slab	0						
	R1 (0-8") loose, dark gray, fine SAND, brick, concrete, (dry), [FILL]	1	R1	MACROCORE	8/36	NA	0.5	Background PID ~0.7 ppm to 10.0 ppm
		2						
		3						
		4	R2	MACROCORE	13/36	NA	0.7	
	R2a (0-2") loose, brown, fine SAND, brick, concrete, (dry)	5					0.7	
	R2b (2-13") loose, reddish-brown, fine SAND, trace silt, (dry)[FILL]	6					0.5	
		7						
	R3 (0-17") loose, reddish-brown, fine SAND, (dry)[FILL]	8	R3	MACROCORE	17/36	NA	1.0	
		9					0.9	
		10					0.8	
		11	R4	MACROCORE	28/36	NA	0.9	
	R4a (0-23") loose, reddish brown, fine SAND, (dry)	12					0.9	
	R4b (23-28") medium dense, reddish brown, fine SAND, trace silt, (dry)[FILL]	13					0.9	
		14					0.9	
		15	R5	MACROCORE	29/36	NA	0.8	
	R5a (0-10") loose, light brown, fine SAND, (dry)	16					1.0	
	R5b (10-29") loose, brown, fine SAND, trace silt, (dry)[SAND]	17					1.0	
		18					1.0	
		19	R6	MACROCORE	11/36	NA	0.9	
	R6a (0-4") loose, light brown, fine SAND, (dry)	20					0.8	
	R6b (4-11") loose, reddish-brown, fine SAND, trace silt, trace crushed mica-schist, (dry)[SAND]						0.7	
			R7	MACROCORE	8/36	NA	0.7	

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Log of Boring

WCB04

Sheet

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of

2

Project		Project No.						
414 Gerard Ave.		170488401						
Location		Elevation and Datum						
Bronx, NY		NA						
MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
			Number	Type	Recov. (in)	Penetr. resist. BL/6in		PID Reading (ppm)
[Patterned Box]	R7 (0-8") medium dense, brown, fine SAND, some coarse sand, crushed mica-schist, (moist)[SAND]	20	R7		8/36		0.7	EOB 24' bgs - borehole backfilled to surface grade
		21					0.8	
		22	R8	MACROCORE	6/36	NA		
	R8 (0-6") medium dense, brown, fine SAND, trace fine gravel, crushed schist, (moist)[SAND]	23						
		24					0.7	
		25						
		26						
		27						
		28						
		29						
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Project 414 Gerard Ave.				Project No. 170488401			
Location Bronx, NY				Elevation and Datum NA			
Drilling Company AARCO Environmental Services Corp.				Date Started 8/30/17		Date Finished 8/30/17	
Drilling Equipment Geoprobe 6610DT				Completion Depth 24 ft		Rock Depth NA	
Size and Type of Bit 2-inch direct push macrocore cutting shoe				Number of Samples 8		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First 20		Completion NA	24 HR. NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Daybi Moreno	
Sampler 3-foot stainless steel macrocore sampler				Field Engineer Veronica Zuluaga			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist Bl/6in		
	6-inch concrete slab	0					0.5	
	R1 (0-7") loose, gray, fine SAND, concrete, brick, (dry), [FILL]	1	R1	MACROCORE	7/36	NA		Background PID ~0.5 ppm
		2						
		3						
		4	R2	MACROCORE	19/36	NA		
	R2a (0-3") medium dense, brown, fine SAND, concrete, brick, tile, (dry)	5					0.5	
	R2b (3-19") loose, reddish-brown, fine SAND, trace silt, (dry)[FILL]	6					0.5	
		7					0.5	
		8	R3	MACROCORE	14/36	NA		
	R3 (0-14") loose, brown, fine SAND, (dry)[FILL]	9					0.5	
		10					0.5	
		11	R4	MACROCORE	16/36	NA		
	R4a (0-12") loose, light brown, fine SAND, (dry)	12					0.5	
	R4b (12-16") loose, reddish-brown, fine SAND, trace mica-schist, (dry)[FILL]	13					0.5	
		14	R5	MACROCORE	16/36	NA		
	R5 (0-16") loose brown, fine SAND, trace coarse gravel, trace crushed schist, (dry)[SAND]	15					0.5	
		16					0.5	
		17	R6	MACROCORE	18/36	NA		
	R6 (0-18") medium dense, fine SAND, some silt, some fine gravel, trace mica-schist, (dry)[SAND]	18					0.5	
		19					0.5	
		20	R7	MACROCORE	13/36	NA		

Project		Project No.					
414 Gerard Ave.		170488401					
Location		Elevation and Datum					
Bronx, NY		NA					
MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/6in	
[Dotted Pattern]	R7 (0-13") medium dense, light brown, fine SAND, trace fine gravel, trace mica-schist, trace quartz, (moist)[SAND]	20	R7		13/36		0.5
		21					0.5
[Dotted Pattern]	R8a (0-10") medium dense, brown, medium SAND, trace crushed mica-schist, (moist)	22	R8		20/36	NA	
	R8b (10-20") dense, brown, silty SAND, some fine gravel, trace mica-schist, (wet)[SAND]	23	MACROCORE				0.5
		24					0.5
		25					
		26					
		27					
		28					
		29					
		30					
		31					
		32					
		33					
		34					
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EOB 24' bgs - borehole backfilled to surface grade

Project 414 Gerard Ave.		Project No. 170488401	
Location Bronx, NY		Elevation and Datum NA	
Drilling Company AARCO Environmental Services Corp.		Date Started 8/30/17	Date Finished 8/30/17
Drilling Equipment Geoprobe 6610DT		Completion Depth 24 ft	Rock Depth NA
Size and Type of Bit 2-inch direct push macrocore cutting shoe		Number of Samples	Disturbed 8 Undisturbed NA Core NA
Casing Diameter (in) NA	Casing Depth (ft) NA	Water Level (ft.) First 20.5 Completion NA	24 HR. NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Daybi Moreno
Sampler 3-foot stainless steel macrocore sampler		Field Engineer Veronica Zuluaga	
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA	

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MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist Bl/In		
	6-inch concrete slab	0					0.6	Background PID ~0.6 ppm
	R1 (0-12") loose, reddish-brown, fine SAND, brick, coal, coal ash, concrete, (dry), [FILL]	1	R1	MACROCORE	12/36	NA	0.6	
		2						
		3						
	R2a (0-4") loose, reddish/gray-brown, fine SAND, coal, coal ash, brick, (dry)	4	R2	MACROCORE	14/36	NA	0.6	
	R2b (4-14") loose, reddish-brown, fine SAND, (dry)[FILL]	5					0.6	
		6						
	R3 (0-17") loose, reddish-brown, fine SAND, (dry)[FILL]	7	R3	MACROCORE	17/36	NA	0.6	
		8					0.6	
		9						
	R4 (0-18") loose, gray-brown, fine SAND, (dry)[FILL]	10	R4	MACROCORE	18/36	NA	0.6	
		11					0.6	
		12					0.6	
	R5 (0-23") loose, reddish-brown, fine SAND, some silt, (dry)[FILL]	13	R5	MACROCORE	23/36	NA	0.6	
		14					0.6	
		15					0.6	
	R6a (0-2") loose, brown, fine SAND, (dry)	16	R6	MACROCORE	21/36	NA	0.6	
	R6b (2-21") medium dense, red-brown fine SAND, trace silt, (dry)[FILL]	17					0.6	
		18					0.6	
	R7 (0-24") loose, white, fine SAND, trace schist, (moist)[SAND]	19	R7	MACROCORE	24/36	NA	0.6	
		20					0.6	

Project		Project No.						
414 Gerard Ave.		170488401						
Location		Elevation and Datum						
Bronx, NY		NA						
MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
			Number	Type	Recov. (in)	Penetr. resist. BL/6in		PID Reading (ppm)
[Patterned]		20	R7		24/36		0.6	EOB 24' bgs - borehole backfilled to surface grade
		21					0.6	
	R8 (0-20") dense, gray-brown, silty SAND, some fine gravel, (moist)[SAND]	22	R8	MACROCORE	20/36	NA	0.6	
		23					0.6	
		24					0.6	
		25						
		26						
		27						
		28						
		29						
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Project 414 Gerard Ave.				Project No. 170488401			
Location Bronx, NY				Elevation and Datum NA			
Drilling Company AARCO Environmental Services Corp.				Date Started 8/31/17		Date Finished 8/31/17	
Drilling Equipment Geoprobe 420M				Completion Depth 14 ft		Rock Depth NA	
Size and Type of Bit 2-inch direct push macrocore cutting shoe				Number of Samples 5		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First NA		Completion NA	24 HR. NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Adam Hutchinson	
Sampler 3-foot stainless steel macrocore sampler				Field Engineer Kevin Garrett			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist Bl/Grin		
	5-inch concrete slab	0					2.2	Background PID ~0.5 ppm
	R1a (0-5") loose, dark gray, fine SAND, some medium sand, trace fine gravel, trace silt, concrete, (dry)	1	R1	MACROCORE	24/36	NA	2.2	
	R1b (6-20") loose, brown, fine SAND, trace medium sand, trace fine gravel, (dry)	2					2.0	
	R1c (20-24") loose, brown, fine SAND, trace medium sand, trace fine gravel, trace silt, (dry)[FILL]	3					2.0	
	R2a (0-3") loose, brown, fine SAND, trace fine gravel, trace medium sand, (dry)	4	R2	MACROCORE	24/26	NA	2.2	
	R2b (3-24") loose, tan, fine SAND, trace silt, (dry)[FILL]	5					2.1	
		6					2.2	
		7					2.2	
	R3a (0-15") loose, tan, fine SAND, trace silt, (dry)	8	R3	MACROCORE	20/36	NA	2.0	
	R3b (15-20") loose, red, fine SAND, some fine gravel, trace medium sand, trace silt, (dry)[FILL]	9					2.1	
		10					2.2	
	R4a (0-8") dense, red, fine SAND, some medium sand, trace fine gravel, trace silt, (dry)	11	R4	MACROCORE	14/36	NA	2.2	
	R4b (8-14") medium dense, tan, fine SAND, some medium sand, trace fine gravel, trace silt, (dry)[FILL]	12					2.2	
	R5a (0-19") medium dense, brown, fine SAND, some medium sand, trace fine gravel, trace silt (dry)[FILL]	13	R5	MACROCORE	24/24	NA	2.2	
	R5b (19-24") dense, white, medium SAND, some fine sand (dry)[SAND]	14					2.2	
		15					2.2	Hit refusal at 14' EOB 20' bgs - borehole backfilled to surface grade
		16					2.2	
		17					2.2	
		18					2.2	
		19					2.2	
		20					2.2	

Project 414 Gerard Ave.				Project No. 170488401			
Location Bronx, NY				Elevation and Datum NA			
Drilling Company AARCO Environmental Services Corp.				Date Started 8/31/17		Date Finished 8/31/17	
Drilling Equipment Geoprobe 420M				Completion Depth 11 ft		Rock Depth NA	
Size and Type of Bit 2-inch direct push macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First NA		Completion NA	Core NA
Casing Hammer NA		Weight (lbs) NA	Drop (in) NA	Drilling Foreman Adam Hutchinson			
Sampler 2 and 4-foot stainless steel macrocore samplers				Field Engineer Kevin Garrett			
Sampler Hammer NA		Weight (lbs) NA	Drop (in) NA				

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MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/6in		
	5-inch concrete slab	0						
	R1a (0-7") loose, gray, medium SAND, some fine sand, concrete, slag, (dry)	1	R1	MACROCORE	15/24	NA	2.2	Background PID ~ 2.2 ppm
	R1b (7-15") loose, brown, fine SAND, trace fine gravel, trace silt, (dry)[FILL]	2					2.2	
	R2a (0-6") medium dense, red, fine SAND, trace fine gravel, trace silt, (dry)	3					2.2	
	R2b (6-36") loose, tan, fine SAND, trace silt, (dry)[FILL]	4	R2	MACROCORE	36/48	NA	2.2	
		5					2.2	
		6					2.2	
		7					2.2	
		8	R3	MACROCORE	24/48	NA	2.2	
	R3a (0-19") loose, tan, fine SAND, trace silt, (dry)[FILL]	9					2.2	
		10					2.2	
	R3b (19-24") dense red, fine SAND, some fine gravel, trace medium sand, trace silt, (dry)[SAND]	10	R4	MC	12/12	NA	2.2	
	R4 (0-12") loose, tan fine SAND, trace fine gravel, (dry)[SAND]	11					2.2	
		12						Hit refusal @ 11' EOB 11' bgs - borehole backfilled to surface grade
		13						
		14						
		15						
		16						
		17						
		18						
		19						
		20						

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Project 414 Gerard Ave.				Project No. 170488401			
Location Bronx, NY				Elevation and Datum NA			
Drilling Company AARCO Environmental Services Corp.				Date Started 9/1/17		Date Finished 9/1/17	
Drilling Equipment Geoprobe 6610DT				Completion Depth 23 ft		Rock Depth NA	
Size and Type of Bit 2-inch direct push macrocore cutting shoe				Number of Samples 6		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First NA		Completion NA	24 HR. NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Daybi Moreno	
Sampler 4-foot stainless steel macrocore sampler				Field Engineer Veronica Zuluaga			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/ft	PID Reading (ppm)	
	5-inch concrete slab	0						
	R1 (0-27") loose, brown, fine SAND, trace fine gravel, concrete, (dry), [FILL]	1					0.0	
		2	R1	MACROCORE	27/48	NA		0.0
		3						0.0
		4						0.0
	R2a (0-4") loose, gray, fine SAND, trace fine gravel, coal, concrete, (dry) R2b (4-31") loose, light brown, fine SAND, (dry)[SAND]	5						0.0
		6	R2	MACROCORE	31/48	NA		0.0
		7						0.0
		8						0.0
	R3a (0-6") loose, light brown, fine SAND, (dry)[FILL]	9						0.0
	R3b (6-36") medium dense, reddish brown, fine SAND, trace fine gravel, trace coarse gravel, (dry)[SAND]	10	R3	MACROCORE	36/48	NA		0.0
		11						0.0
		12						0.0
		13						0.0
	R4 (0-15") medium dense, light brown, fine SAND, some fine gravel, trace medium sand, (dry)[SAND]	14	R4	MACROCORE	15/48	NA		
		15						0.0
		16						0.0
		17						
	R5a (0-2") loose, white, medium SAND, some coarse gravel, trace mica-schist, (dry) R5b (2-23") light brown, fine SAND, some fine gravel, (dry)[SAND]	18	R5	MACROCORE	23/48	NA		
		19						0.0
		20						0.0

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Log of Boring


WCB09

Sheet

2

of

2

Project		Project No.					
414 Gerard Ave.		170488401					
Location		Elevation and Datum					
Bronx, NY		NA					
MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/6in	
		20					
		21					
	R6 (0-24") medium dense, coarse GRAVEL, some fine sand, trace crushed schist, (dry)[GRAVEL]	22	R6	MACROCORE	24/36	NA	0.0
		23					0.0
		24					0.0
		25					0.0
		26					0.0
		27					
		28					
		29					
		30					
		31					
		32					
		33					
		34					
		35					
		36					
		37					
		38					
		39					
		40					
		41					
		42					
		43					
		44					
		45					Hit refusal at 23' EOB 23' bgs - borehole backfilled to surface grade

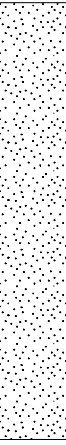
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Project 414 Gerard Ave.				Project No. 170488401			
Location Bronx, NY				Elevation and Datum NA			
Drilling Company AARCO Environmental Services Corp.				Date Started 9/1/17		Date Finished 9/1/17	
Drilling Equipment Geoprobe 6610DT				Completion Depth 27 ft		Rock Depth NA	
Size and Type of Bit 2-inch direct push macrocore cutting shoe				Number of Samples 7		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First NA		Completion NA	24 HR. NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Daybi Moreno	
Sampler 4-foot stainless steel macrocore sampler				Field Engineer Veronica Zuluaga			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist B/Join		
	6-inch concrete slab	0					0.5	Background PID ~0.5 ppm
	R1 (0-12") loose, brown, fine SAND, brick, concrete, (dry), [FILL]	1					0.5	
		2	R1	MACROCORE	12/48	NA		
		3						
		4						
		5						
		6	R2	MACROCORE	9/48	NA		
		7						
	R2 (0-9") loose, dark brown, fine SAND, brick, concrete, (dry), [FILL]	8					0.5	
		9						
		10	R3	MACROCORE	24/48	NA	0.5	
	R3 (0-24") loose, reddish-brown, fine SAND, (dry)[FILL]	11					0.5	
		12					0.5	
		13						
		14	R4	MACROCORE	24/48	NA	0.5	
		15					0.5	
		16					0.5	
		17						
		18	R5	MACROCORE	10/48	NA		
	R5 (0-10") medium, dense reddish-brown, fine SAND, trace fine gravel, (dry)[SAND]	19					0.5	
		20						

Project		Project No.							
414 Gerard Ave.		170488401							
Location		Elevation and Datum							
Bronx, NY		NA							
MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)		
			Number	Type	Recov. (in)	Penetr. resist. BL/6in		PID Reading (ppm)	
	<p>R6a (0-6") medium dense, brown, fine SAND, trace fine gravel, (dry)</p> <p>R6b (6-8") medium dense, brown, medium SAND, crushed schist, (dry)</p> <p>R6c (8-20") medium dense, brown, fine SAND, trace silt, trace fine gravel, (dry)</p> <p>R6d (20-24") medium dense, light brown, fine SAND, trace fine gravel, (dry)[SAND]</p> <p>R7 (0-24") medium dense, white, medium SAND, some fine gravel, (dry)[SAND]</p>	20	R6	MACROCORE	24/48	NA	0.5	Hit refusal at 27' EOB 27' bgs - borehole backfilled to surface grade	
		21					0.5		
		22					0.5		
		23					0.5		
		24	0.5						
		25	R7	MACROCORE	24/48	NA	0.5		
		26					0.5		
		27					0.5		
		28					0.5		
		29							
		30							
		31							
		32							
		33							
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Project 414 Gerard Ave.				Project No. 170488401			
Location Bronx, NY				Elevation and Datum NA			
Drilling Company AARCO Environmental Services Corp.				Date Started 9/1/17		Date Finished 9/1/17	
Drilling Equipment Geoprobe 6610DT				Completion Depth 28 ft		Rock Depth NA	
Size and Type of Bit 2-inch direct push macrocore cutting shoe				Number of Samples		Disturbed 7	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First 28		Completion NA	Core 24 HR. NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Daybi Moreno	
Sampler 4-foot stainless steel macrocore sampler				Field Engineer Veronica Zuluaga			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/Join		
[Cross-hatched pattern]	R1 (0-9") loose, brown, fine SAND, coal, concrete, slag, brick, (dry), [FILL]	0					0.5	Background PID ~0.5 ppm
		1					0.5	
		2	R1	MACROCORE	9/48	NA	0.5	
		3					0.5	
		4					0.5	
	R2 (0-24") loose, reddish-brown, fine SAND, glass, coal, brick, (dry), [FILL]	5					0.5	
		6	R2	MACROCORE	24/48	NA	0.5	
		7					0.5	
	R3a (0-8") loose, gray, fine SAND, concrete, slag, glass, brick, (dry) R3b (8-32") loose, brown, fine SAND, fibers, (dry), [FILL]	8					0.5	
		9					0.5	
		10	R3	MACROCORE	32/48	NA	0.5	
		11					0.5	
12						0.5		
R4 (0-24") medium dense, light-brown, fine SAND, (dry)[SAND]	13					0.5		
	14	R4	MACROCORE	24/48	NA	0.5		
	15					0.5		
	16					0.5		
	17					0.5		
R5 (0-24") medium dense, light-brown, fine SAND, (dry)[SAND]	18	R5	MACROCORE	24/48	NA	0.5		
	19					0.5		
	20					0.5		

Project		Project No.					
414 Gerard Ave.		170488401					
Location		Elevation and Datum					
Bronx, NY		NA					
MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/6in	
[Dotted Pattern]	R6 (0-6") medium dense, brown, fine SAND, trace fine gravel, (dry)[SAND]	20	R6	MACROCORE	6/48	NA	0.5 0.5
		21					
[Dotted Pattern]	R7a (0-9") medium dense, white, medium SAND, (dry) R7b (9-16") medium dense, brown, fine SAND, trace fine gravel, (moist)[SAND]	22	R7	MACROCORE	16/48	NA	0.5 0.5 0.5 0.5
		23					
		24					
		25					
		26					
		27					
		28					EOB 28' bgs - borehole backfilled to surface grade
		29					
		30					
		31					
		32					
		33					
		34					
		35					
		36					
		37					
		38					
		39					
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		42					
		43					
		44					
		45					

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Attachment B

Laboratory Analytical Reports



ANALYTICAL REPORT

Lab Number:	L1730852
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Michele Rogers
Phone:	(212) 479-5429
Project Name:	414 GERARD AVE.
Project Number:	170488401
Report Date:	09/11/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1730852-01	WC01A_COMP_0-6	SOIL	BRONX, NEW YORK	08/31/17 07:56	08/31/17
L1730852-02	WC01B_COMP_6-12	SOIL	BRONX, NEW YORK	08/31/17 07:46	08/31/17
L1730852-03	WC01N_COMP_12-22	SOIL	BRONX, NEW YORK	08/31/17 07:35	08/31/17
L1730852-04	WCDUP01_COMP_083117	SOIL	BRONX, NEW YORK	08/31/17 00:00	08/31/17
L1730852-05	WCB6_20-22	SOIL	BRONX, NEW YORK	08/31/17 07:30	08/31/17
L1730852-06	WCB5_10-12	SOIL	BRONX, NEW YORK	08/31/17 07:40	08/31/17
L1730852-07	WCB4_5-6	SOIL	BRONX, NEW YORK	08/31/17 07:50	08/31/17
L1730852-08	WC02A_COMP_0-6	SOIL	BRONX, NEW YORK	08/31/17 08:26	08/31/17
L1730852-09	WC02B_COMP_6-12	SOIL	BRONX, NEW YORK	08/31/17 08:16	08/31/17
L1730852-10	WC02N_COMP_12-22	SOIL	BRONX, NEW YORK	08/31/17 08:05	08/31/17
L1730852-11	WCB1_20-22	SOIL	BRONX, NEW YORK	08/31/17 08:00	08/31/17
L1730852-12	WCB2_8-9	SOIL	BRONX, NEW YORK	08/31/17 08:10	08/31/17
L1730852-13	WCB3_2-3	SOIL	BRONX, NEW YORK	08/31/17 08:20	08/31/17
L1730852-14	WCB6_11-12	SOIL	BRONX, NEW YORK	08/31/17 07:41	08/31/17
L1730852-15	WCB6_8-9	SOIL	BRONX, NEW YORK	08/31/17 07:42	08/31/17
L1730852-16	WCB4_6-7	SOIL	BRONX, NEW YORK	08/31/17 07:43	08/31/17
L1730852-17	WCB4_10-11	SOIL	BRONX, NEW YORK	08/31/17 07:44	08/31/17
L1730852-18	WCB5_7-8	SOIL	BRONX, NEW YORK	08/31/17 07:45	08/31/17
L1730852-19	WCB4_5-6	SOIL	BRONX, NEW YORK	08/31/17 07:51	08/31/17
L1730852-20	WCB5_2-3	SOIL	BRONX, NEW YORK	08/31/17 07:52	08/31/17
L1730852-21	WCB5_4-5	SOIL	BRONX, NEW YORK	08/31/17 07:53	08/31/17
L1730852-22	WCB6_1-2	SOIL	BRONX, NEW YORK	08/31/17 07:54	08/31/17
L1730852-23	WCB6_5-6	SOIL	BRONX, NEW YORK	08/31/17 07:55	08/31/17
L1730852-24	WCB1_11-12	SOIL	BRONX, NEW YORK	08/31/17 08:11	08/31/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1730852-25	WCB2_10-11	SOIL	BRONX, NEW YORK	08/31/17 08:12	08/31/17
L1730852-26	WCB2_7-8	SOIL	BRONX, NEW YORK	08/31/17 08:13	08/31/17
L1730852-27	WCB3_8-9	SOIL	BRONX, NEW YORK	08/31/17 08:14	08/31/17
L1730852-28	WCB3_6-7	SOIL	BRONX, NEW YORK	08/31/17 08:15	08/31/17
L1730852-29	WCB1_5-6	SOIL	BRONX, NEW YORK	08/31/17 08:21	08/31/17
L1730852-30	WCB1_1-2	SOIL	BRONX, NEW YORK	08/31/17 08:22	08/31/17
L1730852-31	WCB2_5-6	SOIL	BRONX, NEW YORK	08/31/17 08:23	08/31/17
L1730852-32	WCB2_4-5	SOIL	BRONX, NEW YORK	08/31/17 08:24	08/31/17
L1730852-33	WCB3_2-3	SOIL	BRONX, NEW YORK	08/31/17 08:25	08/31/17
L1730852-34	WCDUP01_GRAB_083117	SOIL	BRONX, NEW YORK	08/31/17 00:00	08/31/17
L1730852-35	WCTB01_083117	WATER	BRONX, NEW YORK	08/31/17 00:00	08/31/17

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Case Narrative (continued)

Report Submission

September 11, 2017: This final report includes the results of all requested analyses.

September 08, 2017: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The sample information was provided by the client.

Semivolatile Organics

The WG1038259-2/-3 LCS/LCSD recoveries, associated with L1730852-01,-02,-03,-04,-08,-09, and -10, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Total Metals

L1730852-01 through -04, -08, -09, and -10: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the high concentrations of target and non-target elements.

TCLP Metals

The WG1038957-2 LCS recovery, associated with L1730852-01 through -04, -08,-09, and -10, is above the acceptance criteria for mercury (125%); however, the associated samples are non-detect to the RL for this target analyte. The results of the original analysis are reported.

Cyanide, Total

The WG1037954-2/-3 LCS/LCSD recoveries (123%/66[^]), associated with L1730852-01 through -03, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Case Narrative (continued)

original analyses are reported.

The WG1037954-2/-3 LCS/LCSD RPD (57%), associated with L1730852-01 through -03, are above the acceptance criteria.

The WG1037957-2/-3 LCS/LCSD recoveries (123%/66%), associated with L1730852-04 and -08, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1037957-2/-3 LCS/LCSD RPD (55%), associated with L1730852-04 and -08, are above the acceptance criteria.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Melissa Cripps

Title: Technical Director/Representative

Date: 09/11/17

ORGANICS

VOLATILES

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-05
Client ID: WCB6_20-22
Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:30
Date Received: 08/31/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/08/17 13:34
Analyst: JC
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.3	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.22	1
Chloroform	ND		ug/kg	1.2	0.31	1
Carbon tetrachloride	ND		ug/kg	0.83	0.29	1
1,2-Dichloropropane	ND		ug/kg	2.9	0.19	1
Dibromochloromethane	ND		ug/kg	0.83	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.26	1
Tetrachloroethene	ND		ug/kg	0.83	0.25	1
Chlorobenzene	ND		ug/kg	0.83	0.29	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.35	1
1,2-Dichloroethane	ND		ug/kg	0.83	0.20	1
1,1,1-Trichloroethane	0.33	J	ug/kg	0.83	0.29	1
Bromodichloromethane	ND		ug/kg	0.83	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	0.83	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	0.83	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.83	0.17	1
1,1-Dichloropropene	ND		ug/kg	4.2	0.27	1
Bromoform	ND		ug/kg	3.3	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.83	0.25	1
Benzene	ND		ug/kg	0.83	0.16	1
Toluene	ND		ug/kg	1.2	0.16	1
Ethylbenzene	ND		ug/kg	0.83	0.14	1
Chloromethane	ND		ug/kg	4.2	0.36	1
Bromomethane	ND		ug/kg	1.7	0.28	1
Vinyl chloride	ND		ug/kg	1.7	0.26	1
Chloroethane	ND		ug/kg	1.7	0.26	1
1,1-Dichloroethene	ND		ug/kg	0.83	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
Trichloroethene	3.4		ug/kg	0.83	0.25	1
1,2-Dichlorobenzene	ND		ug/kg	4.2	0.15	1



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-05
 Client ID: WCB6_20-22
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:30
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	4.2	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	4.2	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.13	1
p/m-Xylene	ND		ug/kg	1.7	0.29	1
o-Xylene	ND		ug/kg	1.7	0.28	1
Xylenes, Total	ND		ug/kg	1.7	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.83	0.28	1
Dibromomethane	ND		ug/kg	8.3	0.20	1
Styrene	ND		ug/kg	1.7	0.33	1
Dichlorodifluoromethane	ND		ug/kg	8.3	0.42	1
Acetone	ND		ug/kg	8.3	1.9	1
Carbon disulfide	ND		ug/kg	8.3	0.91	1
2-Butanone	ND		ug/kg	8.3	0.57	1
Vinyl acetate	ND		ug/kg	8.3	0.13	1
4-Methyl-2-pentanone	ND		ug/kg	8.3	0.20	1
1,2,3-Trichloropropane	ND		ug/kg	8.3	0.15	1
2-Hexanone	ND		ug/kg	8.3	0.55	1
Bromochloromethane	ND		ug/kg	4.2	0.30	1
2,2-Dichloropropane	ND		ug/kg	4.2	0.37	1
1,2-Dibromoethane	ND		ug/kg	3.3	0.16	1
1,3-Dichloropropane	ND		ug/kg	4.2	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.83	0.26	1
Bromobenzene	ND		ug/kg	4.2	0.18	1
n-Butylbenzene	ND		ug/kg	0.83	0.19	1
sec-Butylbenzene	ND		ug/kg	0.83	0.18	1
tert-Butylbenzene	ND		ug/kg	4.2	0.20	1
o-Chlorotoluene	ND		ug/kg	4.2	0.18	1
p-Chlorotoluene	ND		ug/kg	4.2	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	0.33	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.29	1
Isopropylbenzene	ND		ug/kg	0.83	0.16	1
p-Isopropyltoluene	ND		ug/kg	0.83	0.17	1
Naphthalene	ND		ug/kg	4.2	0.11	1
Acrylonitrile	ND		ug/kg	8.3	0.43	1
Tert-Butyl Alcohol	ND		ug/kg	50	2.4	1
n-Propylbenzene	ND		ug/kg	0.83	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.2	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.2	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.2	0.13	1



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-05
 Client ID: WCB6_20-22
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:30
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	4.2	0.15	1
Methyl Acetate	ND		ug/kg	17	0.38	1
Acrolein	ND		ug/kg	21	6.7	1
Cyclohexane	ND		ug/kg	17	0.36	1
1,4-Dioxane	ND		ug/kg	33	12.	1
Freon-113	ND		ug/kg	17	0.43	1
p-Diethylbenzene	ND		ug/kg	3.3	3.3	1
p-Ethyltoluene	ND		ug/kg	3.3	0.19	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.3	0.13	1
Ethyl ether	ND		ug/kg	4.2	0.22	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.2	0.32	1
Methyl cyclohexane	ND		ug/kg	3.3	0.20	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	115		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	102		70-130

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-06
 Client ID: WCB5_10-12
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:40
 Date Received: 08/31/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/08/17 14:00
 Analyst: MV
 Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.7	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.24	1
Chloroform	ND		ug/kg	1.3	0.32	1
Carbon tetrachloride	ND		ug/kg	0.87	0.30	1
1,2-Dichloropropane	ND		ug/kg	3.0	0.20	1
Dibromochloromethane	ND		ug/kg	0.87	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.27	1
Tetrachloroethene	ND		ug/kg	0.87	0.26	1
Chlorobenzene	ND		ug/kg	0.87	0.30	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.36	1
1,2-Dichloroethane	ND		ug/kg	0.87	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	0.87	0.30	1
Bromodichloromethane	ND		ug/kg	0.87	0.27	1
trans-1,3-Dichloropropene	ND		ug/kg	0.87	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	0.87	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.87	0.18	1
1,1-Dichloropropene	ND		ug/kg	4.4	0.28	1
Bromoform	ND		ug/kg	3.5	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.87	0.26	1
Benzene	ND		ug/kg	0.87	0.17	1
Toluene	ND		ug/kg	1.3	0.17	1
Ethylbenzene	ND		ug/kg	0.87	0.15	1
Chloromethane	ND		ug/kg	4.4	0.38	1
Bromomethane	ND		ug/kg	1.7	0.29	1
Vinyl chloride	ND		ug/kg	1.7	0.27	1
Chloroethane	ND		ug/kg	1.7	0.28	1
1,1-Dichloroethene	ND		ug/kg	0.87	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.21	1
Trichloroethene	0.52	J	ug/kg	0.87	0.26	1
1,2-Dichlorobenzene	ND		ug/kg	4.4	0.16	1



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-06
 Client ID: WCB5_10-12
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:40
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	4.4	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	4.4	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.13	1
p/m-Xylene	ND		ug/kg	1.7	0.30	1
o-Xylene	ND		ug/kg	1.7	0.29	1
Xylenes, Total	ND		ug/kg	1.7	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.87	0.30	1
Dibromomethane	ND		ug/kg	8.7	0.21	1
Styrene	ND		ug/kg	1.7	0.35	1
Dichlorodifluoromethane	ND		ug/kg	8.7	0.44	1
Acetone	ND		ug/kg	8.7	2.0	1
Carbon disulfide	ND		ug/kg	8.7	0.96	1
2-Butanone	ND		ug/kg	8.7	0.60	1
Vinyl acetate	ND		ug/kg	8.7	0.13	1
4-Methyl-2-pentanone	ND		ug/kg	8.7	0.21	1
1,2,3-Trichloropropane	ND		ug/kg	8.7	0.15	1
2-Hexanone	ND		ug/kg	8.7	0.58	1
Bromochloromethane	ND		ug/kg	4.4	0.31	1
2,2-Dichloropropane	ND		ug/kg	4.4	0.39	1
1,2-Dibromoethane	ND		ug/kg	3.5	0.17	1
1,3-Dichloropropane	ND		ug/kg	4.4	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.87	0.28	1
Bromobenzene	ND		ug/kg	4.4	0.19	1
n-Butylbenzene	ND		ug/kg	0.87	0.20	1
sec-Butylbenzene	ND		ug/kg	0.87	0.19	1
tert-Butylbenzene	ND		ug/kg	4.4	0.22	1
o-Chlorotoluene	ND		ug/kg	4.4	0.19	1
p-Chlorotoluene	ND		ug/kg	4.4	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.4	0.34	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.30	1
Isopropylbenzene	ND		ug/kg	0.87	0.17	1
p-Isopropyltoluene	ND		ug/kg	0.87	0.18	1
Naphthalene	ND		ug/kg	4.4	0.12	1
Acrylonitrile	ND		ug/kg	8.7	0.45	1
Tert-Butyl Alcohol	ND		ug/kg	52	2.6	1
n-Propylbenzene	ND		ug/kg	0.87	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.4	0.22	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.4	0.19	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.4	0.14	1



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-06
 Client ID: WCB5_10-12
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:40
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	4.4	0.16	1
Methyl Acetate	ND		ug/kg	17	0.40	1
Acrolein	ND		ug/kg	22	7.0	1
Cyclohexane	ND		ug/kg	17	0.38	1
1,4-Dioxane	ND		ug/kg	35	12.	1
Freon-113	ND		ug/kg	17	0.45	1
p-Diethylbenzene	ND		ug/kg	3.5	3.5	1
p-Ethyltoluene	ND		ug/kg	3.5	0.20	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.5	0.14	1
Ethyl ether	ND		ug/kg	4.4	0.23	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.4	0.34	1
Methyl cyclohexane	ND		ug/kg	3.5	0.21	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	114		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	104		70-130

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-07
Client ID: WCB4_5-6
Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:50
Date Received: 08/31/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/08/17 14:26
Analyst: MV
Percent Solids: 98%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	2.1	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.34	1
Chloroform	ND		ug/kg	1.9	0.47	1
Carbon tetrachloride	ND		ug/kg	1.3	0.44	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.29	1
Dibromochloromethane	ND		ug/kg	1.3	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.40	1
Tetrachloroethene	ND		ug/kg	1.3	0.38	1
Chlorobenzene	ND		ug/kg	1.3	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.4	0.53	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.31	1
1,1,1-Trichloroethane	0.51	J	ug/kg	1.3	0.44	1
Bromodichloromethane	ND		ug/kg	1.3	0.39	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.29	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	0.26	1
1,1-Dichloropropene	ND		ug/kg	6.4	0.42	1
Bromoform	ND		ug/kg	5.1	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.38	1
Benzene	ND		ug/kg	1.3	0.24	1
Toluene	ND		ug/kg	1.9	0.25	1
Ethylbenzene	ND		ug/kg	1.3	0.22	1
Chloromethane	ND		ug/kg	6.4	0.56	1
Bromomethane	ND		ug/kg	2.5	0.43	1
Vinyl chloride	ND		ug/kg	2.5	0.40	1
Chloroethane	ND		ug/kg	2.5	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.47	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.31	1
Trichloroethene	4.7		ug/kg	1.3	0.38	1
1,2-Dichlorobenzene	ND		ug/kg	6.4	0.23	1



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-07
 Client ID: WCB4_5-6
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:50
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.4	0.28	1
1,4-Dichlorobenzene	ND		ug/kg	6.4	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.19	1
p/m-Xylene	ND		ug/kg	2.5	0.45	1
o-Xylene	ND		ug/kg	2.5	0.43	1
Xylenes, Total	ND		ug/kg	2.5	0.43	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.44	1
Dibromomethane	ND		ug/kg	13	0.30	1
Styrene	ND		ug/kg	2.5	0.51	1
Dichlorodifluoromethane	ND		ug/kg	13	0.64	1
Acetone	ND		ug/kg	13	2.9	1
Carbon disulfide	ND		ug/kg	13	1.4	1
2-Butanone	ND		ug/kg	13	0.88	1
Vinyl acetate	ND		ug/kg	13	0.19	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.31	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.22	1
2-Hexanone	ND		ug/kg	13	0.85	1
Bromochloromethane	ND		ug/kg	6.4	0.45	1
2,2-Dichloropropane	ND		ug/kg	6.4	0.57	1
1,2-Dibromoethane	ND		ug/kg	5.1	0.25	1
1,3-Dichloropropane	ND		ug/kg	6.4	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.40	1
Bromobenzene	ND		ug/kg	6.4	0.28	1
n-Butylbenzene	ND		ug/kg	1.3	0.29	1
sec-Butylbenzene	ND		ug/kg	1.3	0.28	1
tert-Butylbenzene	ND		ug/kg	6.4	0.31	1
o-Chlorotoluene	ND		ug/kg	6.4	0.28	1
p-Chlorotoluene	ND		ug/kg	6.4	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.4	0.50	1
Hexachlorobutadiene	ND		ug/kg	6.4	0.44	1
Isopropylbenzene	ND		ug/kg	1.3	0.25	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.26	1
Naphthalene	ND		ug/kg	6.4	0.18	1
Acrylonitrile	ND		ug/kg	13	0.65	1
Tert-Butyl Alcohol	ND		ug/kg	76	3.7	1
n-Propylbenzene	ND		ug/kg	1.3	0.27	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.4	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.4	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.4	0.20	1



Project Name: 414 GERARD AVE.**Lab Number:** L1730852**Project Number:** 170488401**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730852-07
 Client ID: WCB4_5-6
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:50
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.4	0.24	1
Methyl Acetate	ND		ug/kg	25	0.59	1
Acrolein	ND		ug/kg	32	10.	1
Cyclohexane	ND		ug/kg	25	0.55	1
1,4-Dioxane	ND		ug/kg	51	18.	1
Freon-113	ND		ug/kg	25	0.65	1
p-Diethylbenzene	ND		ug/kg	5.1	5.1	1
p-Ethyltoluene	ND		ug/kg	5.1	0.30	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.1	0.20	1
Ethyl ether	ND		ug/kg	6.4	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	0.50	1
Methyl cyclohexane	ND		ug/kg	5.1	0.30	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	114		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	105		70-130

Project Name: 414 GERARD AVE.**Lab Number:** L1730852**Project Number:** 170488401**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730852-11
 Client ID: WCB1_20-22
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:00
 Date Received: 08/31/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/08/17 14:52
 Analyst: MV
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.6	1.1	1
1,1-Dichloroethane	ND		ug/kg	0.98	0.18	1
Chloroform	ND		ug/kg	0.98	0.24	1
Carbon tetrachloride	ND		ug/kg	0.66	0.23	1
1,2-Dichloropropane	ND		ug/kg	2.3	0.15	1
Dibromochloromethane	ND		ug/kg	0.66	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.98	0.20	1
Tetrachloroethene	ND		ug/kg	0.66	0.20	1
Chlorobenzene	ND		ug/kg	0.66	0.23	1
Trichlorofluoromethane	ND		ug/kg	3.3	0.27	1
1,2-Dichloroethane	ND		ug/kg	0.66	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	0.66	0.23	1
Bromodichloromethane	ND		ug/kg	0.66	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	0.66	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	0.66	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.66	0.14	1
1,1-Dichloropropene	ND		ug/kg	3.3	0.22	1
Bromoform	ND		ug/kg	2.6	0.16	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	0.20	1
Benzene	ND		ug/kg	0.66	0.13	1
Toluene	ND		ug/kg	0.98	0.13	1
Ethylbenzene	ND		ug/kg	0.66	0.11	1
Chloromethane	ND		ug/kg	3.3	0.29	1
Bromomethane	ND		ug/kg	1.3	0.22	1
Vinyl chloride	ND		ug/kg	1.3	0.21	1
Chloroethane	ND		ug/kg	1.3	0.21	1
1,1-Dichloroethene	ND		ug/kg	0.66	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	0.98	0.16	1
Trichloroethene	ND		ug/kg	0.66	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	3.3	0.12	1



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-11
 Client ID: WCB1_20-22
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:00
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.3	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	3.3	0.12	1
Methyl tert butyl ether	ND		ug/kg	1.3	0.10	1
p/m-Xylene	ND		ug/kg	1.3	0.23	1
o-Xylene	ND		ug/kg	1.3	0.22	1
Xylenes, Total	ND		ug/kg	1.3	0.22	1
cis-1,2-Dichloroethene	ND		ug/kg	0.66	0.22	1
Dibromomethane	ND		ug/kg	6.6	0.16	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	6.6	0.33	1
Acetone	ND		ug/kg	6.6	1.5	1
Carbon disulfide	ND		ug/kg	6.6	0.72	1
2-Butanone	ND		ug/kg	6.6	0.45	1
Vinyl acetate	ND		ug/kg	6.6	0.10	1
4-Methyl-2-pentanone	ND		ug/kg	6.6	0.16	1
1,2,3-Trichloropropane	ND		ug/kg	6.6	0.12	1
2-Hexanone	ND		ug/kg	6.6	0.44	1
Bromochloromethane	ND		ug/kg	3.3	0.23	1
2,2-Dichloropropane	ND		ug/kg	3.3	0.30	1
1,2-Dibromoethane	ND		ug/kg	2.6	0.13	1
1,3-Dichloropropane	ND		ug/kg	3.3	0.12	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.66	0.21	1
Bromobenzene	ND		ug/kg	3.3	0.14	1
n-Butylbenzene	ND		ug/kg	0.66	0.15	1
sec-Butylbenzene	ND		ug/kg	0.66	0.14	1
tert-Butylbenzene	ND		ug/kg	3.3	0.16	1
o-Chlorotoluene	ND		ug/kg	3.3	0.14	1
p-Chlorotoluene	ND		ug/kg	3.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	0.26	1
Hexachlorobutadiene	ND		ug/kg	3.3	0.23	1
Isopropylbenzene	ND		ug/kg	0.66	0.13	1
p-Isopropyltoluene	ND		ug/kg	0.66	0.13	1
Naphthalene	ND		ug/kg	3.3	0.09	1
Acrylonitrile	ND		ug/kg	6.6	0.34	1
Tert-Butyl Alcohol	ND		ug/kg	39	1.9	1
n-Propylbenzene	ND		ug/kg	0.66	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.3	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.3	0.14	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.3	0.10	1



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-11
Client ID: WCB1_20-22
Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:00
Date Received: 08/31/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	3.3	0.12	1
Methyl Acetate	ND		ug/kg	13	0.30	1
Acrolein	ND		ug/kg	16	5.3	1
Cyclohexane	ND		ug/kg	13	0.28	1
1,4-Dioxane	ND		ug/kg	26	9.4	1
Freon-113	ND		ug/kg	13	0.34	1
p-Diethylbenzene	ND		ug/kg	2.6	2.6	1
p-Ethyltoluene	ND		ug/kg	2.6	0.15	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.10	1
Ethyl ether	ND		ug/kg	3.3	0.17	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	3.3	0.26	1
Methyl cyclohexane	ND		ug/kg	2.6	0.16	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	114		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	106		70-130

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-12
Client ID: WCB2_8-9
Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:10
Date Received: 08/31/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/08/17 15:18
Analyst: PK
Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.9	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.27	1
Chloroform	ND		ug/kg	1.5	0.37	1
Carbon tetrachloride	ND		ug/kg	0.99	0.34	1
1,2-Dichloropropane	ND		ug/kg	3.5	0.23	1
Dibromochloromethane	ND		ug/kg	0.99	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31	1
Tetrachloroethene	ND		ug/kg	0.99	0.30	1
Chlorobenzene	ND		ug/kg	0.99	0.34	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.41	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.99	0.35	1
Bromodichloromethane	ND		ug/kg	0.99	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	0.99	0.23	1
1,3-Dichloropropene, Total	ND		ug/kg	0.99	0.21	1
1,1-Dichloropropene	ND		ug/kg	5.0	0.32	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.99	0.30	1
Benzene	ND		ug/kg	0.99	0.19	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	ND		ug/kg	0.99	0.17	1
Chloromethane	ND		ug/kg	5.0	0.43	1
Bromomethane	ND		ug/kg	2.0	0.34	1
Vinyl chloride	ND		ug/kg	2.0	0.31	1
Chloroethane	ND		ug/kg	2.0	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24	1
Trichloroethene	3.0		ug/kg	0.99	0.30	1
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18	1



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-12
 Client ID: WCB2_8-9
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:10
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.15	1
p/m-Xylene	ND		ug/kg	2.0	0.35	1
o-Xylene	ND		ug/kg	2.0	0.34	1
Xylenes, Total	ND		ug/kg	2.0	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.34	1
Dibromomethane	ND		ug/kg	9.9	0.24	1
Styrene	ND		ug/kg	2.0	0.40	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.50	1
Acetone	4.6	J	ug/kg	9.9	2.3	1
Carbon disulfide	ND		ug/kg	9.9	1.1	1
2-Butanone	ND		ug/kg	9.9	0.68	1
Vinyl acetate	ND		ug/kg	9.9	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	9.9	0.18	1
2-Hexanone	ND		ug/kg	9.9	0.66	1
Bromochloromethane	ND		ug/kg	5.0	0.35	1
2,2-Dichloropropane	ND		ug/kg	5.0	0.45	1
1,2-Dibromoethane	ND		ug/kg	4.0	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.0	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.99	0.32	1
Bromobenzene	ND		ug/kg	5.0	0.22	1
n-Butylbenzene	ND		ug/kg	0.99	0.23	1
sec-Butylbenzene	ND		ug/kg	0.99	0.22	1
tert-Butylbenzene	ND		ug/kg	5.0	0.24	1
o-Chlorotoluene	ND		ug/kg	5.0	0.22	1
p-Chlorotoluene	ND		ug/kg	5.0	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.39	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.34	1
Isopropylbenzene	ND		ug/kg	0.99	0.19	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.20	1
Naphthalene	ND		ug/kg	5.0	0.14	1
Acrylonitrile	ND		ug/kg	9.9	0.51	1
Tert-Butyl Alcohol	ND		ug/kg	60	2.9	1
n-Propylbenzene	ND		ug/kg	0.99	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16	1



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-12
 Client ID: WCB2_8-9
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:10
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.18	1
Methyl Acetate	ND		ug/kg	20	0.46	1
Acrolein	ND		ug/kg	25	8.0	1
Cyclohexane	ND		ug/kg	20	0.43	1
1,4-Dioxane	ND		ug/kg	40	14.	1
Freon-113	ND		ug/kg	20	0.51	1
p-Diethylbenzene	ND		ug/kg	4.0	4.0	1
p-Ethyltoluene	ND		ug/kg	4.0	0.23	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.15	1
Ethyl ether	ND		ug/kg	5.0	0.26	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39	1
Methyl cyclohexane	ND		ug/kg	4.0	0.24	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	107		70-130

Project Name: 414 GERARD AVE.**Lab Number:** L1730852**Project Number:** 170488401**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730852-13
 Client ID: WCB3_2-3
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:20
 Date Received: 08/31/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/08/17 15:44
 Analyst: PK
 Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.32	1
Chloroform	ND		ug/kg	1.8	0.45	1
Carbon tetrachloride	ND		ug/kg	1.2	0.42	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.36	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.0	0.50	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	0.52	J	ug/kg	1.2	0.42	1
Bromodichloromethane	ND		ug/kg	1.2	0.37	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.28	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.25	1
1,1-Dichloropropene	ND		ug/kg	6.0	0.40	1
Bromoform	ND		ug/kg	4.8	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.36	1
Benzene	ND		ug/kg	1.2	0.23	1
Toluene	ND		ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.20	1
Chloromethane	ND		ug/kg	6.0	0.52	1
Bromomethane	ND		ug/kg	2.4	0.41	1
Vinyl chloride	ND		ug/kg	2.4	0.38	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.45	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.29	1
Trichloroethene	3.1		ug/kg	1.2	0.36	1
1,2-Dichlorobenzene	ND		ug/kg	6.0	0.22	1



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-13
 Client ID: WCB3_2-3
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:20
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.0	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	6.0	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.18	1
p/m-Xylene	ND		ug/kg	2.4	0.42	1
o-Xylene	ND		ug/kg	2.4	0.41	1
Xylenes, Total	ND		ug/kg	2.4	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.41	1
Dibromomethane	ND		ug/kg	12	0.29	1
Styrene	ND		ug/kg	2.4	0.48	1
Dichlorodifluoromethane	ND		ug/kg	12	0.60	1
Acetone	ND		ug/kg	12	2.8	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.83	1
Vinyl acetate	ND		ug/kg	12	0.18	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.21	1
2-Hexanone	ND		ug/kg	12	0.80	1
Bromochloromethane	ND		ug/kg	6.0	0.43	1
2,2-Dichloropropane	ND		ug/kg	6.0	0.54	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.24	1
1,3-Dichloropropane	ND		ug/kg	6.0	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	6.0	0.26	1
n-Butylbenzene	ND		ug/kg	1.2	0.28	1
sec-Butylbenzene	ND		ug/kg	1.2	0.26	1
tert-Butylbenzene	ND		ug/kg	6.0	0.30	1
o-Chlorotoluene	ND		ug/kg	6.0	0.27	1
p-Chlorotoluene	ND		ug/kg	6.0	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	0.48	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.42	1
Isopropylbenzene	ND		ug/kg	1.2	0.23	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.24	1
Naphthalene	ND		ug/kg	6.0	0.17	1
Acrylonitrile	ND		ug/kg	12	0.62	1
Tert-Butyl Alcohol	ND		ug/kg	72	3.5	1
n-Propylbenzene	ND		ug/kg	1.2	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.0	0.19	1



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-13
 Client ID: WCB3_2-3
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:20
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.0	0.22	1
Methyl Acetate	ND		ug/kg	24	0.56	1
Acrolein	ND		ug/kg	30	9.7	1
Cyclohexane	ND		ug/kg	24	0.52	1
1,4-Dioxane	ND		ug/kg	48	17.	1
Freon-113	ND		ug/kg	24	0.62	1
p-Diethylbenzene	ND		ug/kg	4.8	4.8	1
p-Ethyltoluene	ND		ug/kg	4.8	0.28	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.8	0.19	1
Ethyl ether	ND		ug/kg	6.0	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	0.47	1
Methyl cyclohexane	ND		ug/kg	4.8	0.29	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	114		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	107		70-130

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-34
 Client ID: WCDUP01_GRAB_083117
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 00:00
 Date Received: 08/31/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/08/17 16:09
 Analyst: PK
 Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.9	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.27	1
Chloroform	ND		ug/kg	1.5	0.37	1
Carbon tetrachloride	ND		ug/kg	0.99	0.34	1
1,2-Dichloropropane	ND		ug/kg	3.5	0.22	1
Dibromochloromethane	ND		ug/kg	0.99	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31	1
Tetrachloroethene	ND		ug/kg	0.99	0.30	1
Chlorobenzene	ND		ug/kg	0.99	0.34	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.41	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.99	0.35	1
Bromodichloromethane	ND		ug/kg	0.99	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.99	0.23	1
1,3-Dichloropropene, Total	ND		ug/kg	0.99	0.20	1
1,1-Dichloropropene	ND		ug/kg	5.0	0.32	1
Bromoform	ND		ug/kg	4.0	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.99	0.30	1
Benzene	ND		ug/kg	0.99	0.19	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	ND		ug/kg	0.99	0.17	1
Chloromethane	ND		ug/kg	5.0	0.43	1
Bromomethane	ND		ug/kg	2.0	0.33	1
Vinyl chloride	ND		ug/kg	2.0	0.31	1
Chloroethane	ND		ug/kg	2.0	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24	1
Trichloroethene	ND		ug/kg	0.99	0.30	1
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18	1



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-34
 Client ID: WCDUP01_GRAB_083117
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 00:00
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.15	1
p/m-Xylene	ND		ug/kg	2.0	0.35	1
o-Xylene	ND		ug/kg	2.0	0.33	1
Xylenes, Total	ND		ug/kg	2.0	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.34	1
Dibromomethane	ND		ug/kg	9.9	0.24	1
Styrene	ND		ug/kg	2.0	0.40	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.50	1
Acetone	2.4	J	ug/kg	9.9	2.3	1
Carbon disulfide	ND		ug/kg	9.9	1.1	1
2-Butanone	ND		ug/kg	9.9	0.68	1
Vinyl acetate	ND		ug/kg	9.9	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	9.9	0.18	1
2-Hexanone	ND		ug/kg	9.9	0.66	1
Bromochloromethane	ND		ug/kg	5.0	0.35	1
2,2-Dichloropropane	ND		ug/kg	5.0	0.44	1
1,2-Dibromoethane	ND		ug/kg	4.0	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.0	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.99	0.31	1
Bromobenzene	ND		ug/kg	5.0	0.22	1
n-Butylbenzene	ND		ug/kg	0.99	0.22	1
sec-Butylbenzene	ND		ug/kg	0.99	0.21	1
tert-Butylbenzene	ND		ug/kg	5.0	0.24	1
o-Chlorotoluene	ND		ug/kg	5.0	0.22	1
p-Chlorotoluene	ND		ug/kg	5.0	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.39	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.34	1
Isopropylbenzene	ND		ug/kg	0.99	0.19	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.20	1
Naphthalene	ND		ug/kg	5.0	0.14	1
Acrylonitrile	ND		ug/kg	9.9	0.51	1
Tert-Butyl Alcohol	ND		ug/kg	59	2.9	1
n-Propylbenzene	ND		ug/kg	0.99	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16	1



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-34
Client ID: WCDUP01_GRAB_083117
Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 00:00
Date Received: 08/31/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.18	1
Methyl Acetate	ND		ug/kg	20	0.46	1
Acrolein	ND		ug/kg	25	8.0	1
Cyclohexane	ND		ug/kg	20	0.43	1
1,4-Dioxane	ND		ug/kg	40	14.	1
Freon-113	ND		ug/kg	20	0.51	1
p-Diethylbenzene	ND		ug/kg	4.0	4.0	1
p-Ethyltoluene	ND		ug/kg	4.0	0.23	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.15	1
Ethyl ether	ND		ug/kg	5.0	0.26	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39	1
Methyl cyclohexane	ND		ug/kg	4.0	0.24	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		70-130
Toluene-d8	114		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	106		70-130

Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-35
 Client ID: WCTB01_083117
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 00:00
 Date Received: 08/31/17
 Field Prep: Not Specified

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/08/17 03:42
 Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-35
 Client ID: WCTB01_083117
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 00:00
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Tert-Butyl Alcohol	ND		ug/l	10	1.4	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	3.0	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Acrolein	ND		ug/l	5.0	0.44	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-35
Client ID: WCTB01_083117
Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 00:00
Date Received: 08/31/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	99		70-130

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/07/17 20:59
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 35 Batch: WG1039734-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/07/17 20:59
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 35 Batch: WG1039734-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Tert-Butyl Alcohol	ND		ug/l	10	1.4
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Acrolein	ND		ug/l	5.0	0.44
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/07/17 20:59
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 35 Batch: WG1039734-5					
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/07/17 20:59
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 35 Batch: WG1039734-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	99		70-130

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/08/17 08:50
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05-07,11-13,34 Batch: WG1039737-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	0.70	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/08/17 08:50
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05-07,11-13,34 Batch: WG1039737-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22
p-Chlorotoluene	ND		ug/kg	5.0	0.18



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/08/17 08:50
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05-07,11-13,34 Batch: WG1039737-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
Tert-Butyl Alcohol	ND		ug/kg	60	2.9
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
Methyl Acetate	ND		ug/kg	20	0.46
Acrolein	ND		ug/kg	25	8.0
Cyclohexane	ND		ug/kg	20	0.43
1,4-Dioxane	ND		ug/kg	40	14.
Freon-113	ND		ug/kg	20	0.51
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Methyl cyclohexane	ND		ug/kg	4.0	0.24

Project Name: 414 GERARD AVE.**Lab Number:** L1730852**Project Number:** 170488401**Report Date:** 09/11/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C

Analytical Date: 09/08/17 08:50

Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05-07,11-13,34 Batch: WG1039737-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	115		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 35 Batch: WG1039734-3 WG1039734-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	97		98		63-130	1		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	89		90		70-130	1		20
Chlorobenzene	94		96		75-130	2		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	99		100		67-130	1		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	110		110		70-130	0		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	91		91		54-136	0		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	98		100		70-130	2		20
Toluene	95		97		70-130	2		20
Ethylbenzene	96		98		70-130	2		20
Chloromethane	110		110		64-130	0		20
Bromomethane	93		100		39-139	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 35 Batch: WG1039734-3 WG1039734-4								
Vinyl chloride	110		110		55-140	0		20
Chloroethane	96		98		55-138	2		20
1,1-Dichloroethene	97		100		61-145	3		20
trans-1,2-Dichloroethene	93		97		70-130	4		20
Trichloroethene	98		98		70-130	0		20
1,2-Dichlorobenzene	93		96		70-130	3		20
1,3-Dichlorobenzene	91		94		70-130	3		20
1,4-Dichlorobenzene	93		95		70-130	2		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	95		100		70-130	5		20
cis-1,2-Dichloroethene	94		97		70-130	3		20
Dibromomethane	110		110		70-130	0		20
1,2,3-Trichloropropane	110		110		64-130	0		20
Acrylonitrile	120		120		70-130	0		20
Tert-Butyl Alcohol	122		128		70-130	5		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	100		100		36-147	0		20
Acetone	130		120		58-148	8		20
Carbon disulfide	97		100		51-130	3		20
2-Butanone	110		110		63-138	0		20
Vinyl acetate	120		120		70-130	0		20
4-Methyl-2-pentanone	100		100		59-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 35 Batch: WG1039734-3 WG1039734-4								
2-Hexanone	110		110		57-130	0		20
Acrolein	110		110		40-160	0		20
Bromochloromethane	97		97		70-130	0		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	100		110		70-130	10		20
1,3-Dichloropropane	110		110		70-130	0		20
1,1,1,2-Tetrachloroethane	94		94		64-130	0		20
Bromobenzene	88		90		70-130	2		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	99		100		70-130	1		20
tert-Butylbenzene	94		97		70-130	3		20
o-Chlorotoluene	100		100		70-130	0		20
p-Chlorotoluene	96		100		70-130	4		20
1,2-Dibromo-3-chloropropane	89		94		41-144	5		20
Hexachlorobutadiene	85		90		63-130	6		20
Isopropylbenzene	94		98		70-130	4		20
p-Isopropyltoluene	96		98		70-130	2		20
Naphthalene	110		120		70-130	9		20
n-Propylbenzene	100		100		69-130	0		20
1,2,3-Trichlorobenzene	100		110		70-130	10		20
1,2,4-Trichlorobenzene	97		100		70-130	3		20
1,3,5-Trimethylbenzene	95		97		64-130	2		20
1,2,4-Trimethylbenzene	94		97		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.

Project Number: 170488401

Lab Number: L1730852

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 35 Batch: WG1039734-3 WG1039734-4								
Methyl Acetate	120		120		70-130	0		20
Cyclohexane	110		110		70-130	0		20
1,4-Dioxane	114		138		56-162	19		20
Freon-113	100		100		70-130	0		20
p-Diethylbenzene	96		97		70-130	1		20
p-Ethyltoluene	95		98		70-130	3		20
1,2,4,5-Tetramethylbenzene	88		90		70-130	2		20
Ethyl ether	110		110		59-134	0		20
trans-1,4-Dichloro-2-butene	100		99		70-130	1		20
Methyl cyclohexane	90		90		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	118		118		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	105		105		70-130
Dibromofluoromethane	102		100		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05-07,11-13,34 Batch: WG1039737-3 WG1039737-4								
Methylene chloride	101		100		70-130	1		30
1,1-Dichloroethane	107		106		70-130	1		30
Chloroform	100		100		70-130	0		30
Carbon tetrachloride	89		90		70-130	1		30
1,2-Dichloropropane	104		103		70-130	1		30
Dibromochloromethane	90		90		70-130	0		30
1,1,2-Trichloroethane	111		109		70-130	2		30
Tetrachloroethene	93		93		70-130	0		30
Chlorobenzene	102		102		70-130	0		30
Trichlorofluoromethane	100		101		70-139	1		30
1,2-Dichloroethane	98		98		70-130	0		30
1,1,1-Trichloroethane	98		98		70-130	0		30
Bromodichloromethane	91		90		70-130	1		30
trans-1,3-Dichloropropene	98		98		70-130	0		30
cis-1,3-Dichloropropene	91		91		70-130	0		30
1,1-Dichloropropene	99		98		70-130	1		30
Bromoform	84		84		70-130	0		30
1,1,2,2-Tetrachloroethane	115		114		70-130	1		30
Benzene	100		99		70-130	1		30
Toluene	106		105		70-130	1		30
Ethylbenzene	104		104		70-130	0		30
Chloromethane	89		87		52-130	2		30
Bromomethane	82		87		57-147	6		30



Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05-07,11-13,34 Batch: WG1039737-3 WG1039737-4								
Vinyl chloride	82		84		67-130	2		30
Chloroethane	101		103		50-151	2		30
1,1-Dichloroethene	94		93		65-135	1		30
trans-1,2-Dichloroethene	96		96		70-130	0		30
Trichloroethene	96		95		70-130	1		30
1,2-Dichlorobenzene	100		98		70-130	2		30
1,3-Dichlorobenzene	99		98		70-130	1		30
1,4-Dichlorobenzene	98		97		70-130	1		30
Methyl tert butyl ether	96		96		66-130	0		30
p/m-Xylene	102		102		70-130	0		30
o-Xylene	102		102		70-130	0		30
cis-1,2-Dichloroethene	95		95		70-130	0		30
Dibromomethane	92		92		70-130	0		30
Styrene	100		100		70-130	0		30
Dichlorodifluoromethane	57		56		30-146	2		30
Acetone	96		99		54-140	3		30
Carbon disulfide	86		87		59-130	1		30
2-Butanone	96		98		70-130	2		30
Vinyl acetate	91		93		70-130	2		30
4-Methyl-2-pentanone	92		89		70-130	3		30
1,2,3-Trichloropropane	113		111		68-130	2		30
2-Hexanone	72		76		70-130	5		30
Bromochloromethane	96		95		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05-07,11-13,34 Batch: WG1039737-3 WG1039737-4									
2,2-Dichloropropane	100		100		70-130		0		30
1,2-Dibromoethane	100		100		70-130		0		30
1,3-Dichloropropane	109		108		69-130		1		30
1,1,1,2-Tetrachloroethane	106		107		70-130		1		30
Bromobenzene	97		96		70-130		1		30
n-Butylbenzene	112		110		70-130		2		30
sec-Butylbenzene	109		106		70-130		3		30
tert-Butylbenzene	105		102		70-130		3		30
o-Chlorotoluene	109		108		70-130		1		30
p-Chlorotoluene	110		106		70-130		4		30
1,2-Dibromo-3-chloropropane	82		84		68-130		2		30
Hexachlorobutadiene	90		87		67-130		3		30
Isopropylbenzene	106		105		70-130		1		30
p-Isopropyltoluene	105		103		70-130		2		30
Naphthalene	93		91		70-130		2		30
Acrylonitrile	96		99		70-130		3		30
Tert-Butyl Alcohol	102		99		70-130		3		30
n-Propylbenzene	112		110		70-130		2		30
1,2,3-Trichlorobenzene	93		92		70-130		1		30
1,2,4-Trichlorobenzene	90		87		70-130		3		30
1,3,5-Trimethylbenzene	109		106		70-130		3		30
1,2,4-Trimethylbenzene	107		106		70-130		1		30
Methyl Acetate	85		91		51-146		7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.

Project Number: 170488401

Lab Number: L1730852

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05-07,11-13,34 Batch: WG1039737-3 WG1039737-4								
Acrolein	91		135	Q	70-130	39	Q	30
Cyclohexane	103		102		59-142	1		30
1,4-Dioxane	92		90		65-136	2		30
Freon-113	93		94		50-139	1		30
p-Diethylbenzene	103		100		70-130	3		30
p-Ethyltoluene	109		107		70-130	2		30
1,2,4,5-Tetramethylbenzene	101		98		70-130	3		30
Ethyl ether	102		91		67-130	11		30
trans-1,4-Dichloro-2-butene	98		108		70-130	10		30
Methyl cyclohexane	94		93		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		110		70-130
Toluene-d8	115		115		70-130
4-Bromofluorobenzene	110		110		70-130
Dibromofluoromethane	103		105		70-130

SEMIVOLATILES

Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-01
 Client ID: WC01A_COMP_0-6
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:56
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/03/17 14:24

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/06/17 07:32
 Analyst: ALS
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Benzidine	ND		ug/kg	570	190	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Azobenzene	ND		ug/kg	170	17.	1
Fluoranthene	200		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	330		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-01
 Client ID: WC01A_COMP_0-6
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:56
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	120		ug/kg	100	20.	1
Benzo(a)pyrene	110	J	ug/kg	140	42.	1
Benzo(b)fluoranthene	140		ug/kg	100	29.	1
Benzo(k)fluoranthene	40	J	ug/kg	100	28.	1
Chrysene	100		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	71	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	130		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	76	J	ug/kg	140	24.	1
Pyrene	190		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	40.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	34.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	22.	1
n-Nitrosodimethylamine	ND		ug/kg	350	33.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	380	65.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1



Project Name: 414 GERARD AVE.**Lab Number:** L1730852**Project Number:** 170488401**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730852-01
 Client ID: WC01A_COMP_0-6
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:56
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
Atrazine	ND		ug/kg	140	61.	1
Benzaldehyde	ND		ug/kg	230	47.	1
Caprolactam	ND		ug/kg	170	53.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	43		10-136
4-Terphenyl-d14	56		18-120

Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-02
 Client ID: WC01B_COMP_6-12
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:46
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/03/17 14:24

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/06/17 04:34
 Analyst: ALS
 Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	130	17.	1
Benzidine	ND		ug/kg	560	180	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	30.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	29.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Azobenzene	ND		ug/kg	170	16.	1
Fluoranthene	ND		ug/kg	100	19.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	480	150	1
Hexachloroethane	ND		ug/kg	130	27.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	20.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	130	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.	1
Butyl benzyl phthalate	ND		ug/kg	170	42.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	57.	1



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-02
 Client ID: WC01B_COMP_6-12
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:46
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	35.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	130	41.	1
Benzo(b)fluoranthene	ND		ug/kg	100	28.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	130	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	130	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	ND		ug/kg	100	20.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	380	39.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	32.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	70.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
n-Nitrosodimethylamine	ND		ug/kg	340	32.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	360	63.	1
4-Nitrophenol	ND		ug/kg	240	69.	1
2,4-Dinitrophenol	ND		ug/kg	810	78.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	81.	1
Pentachlorophenol	ND		ug/kg	130	37.	1
Phenol	ND		ug/kg	170	25.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	32.	1



Project Name: 414 GERARD AVE.**Lab Number:** L1730852**Project Number:** 170488401**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730852-02
 Client ID: WC01B_COMP_6-12
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:46
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Benzoic Acid	ND		ug/kg	550	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	16.	1
Atrazine	ND		ug/kg	130	59.	1
Benzaldehyde	ND		ug/kg	220	46.	1
Caprolactam	ND		ug/kg	170	51.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	34.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	63		10-136
4-Terphenyl-d14	65		18-120

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-03
 Client ID: WC01N_COMP_12-22
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:35
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/03/17 14:24

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/06/17 06:16
 Analyst: ALS
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Benzidine	ND		ug/kg	580	190	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Azobenzene	ND		ug/kg	180	17.	1
Fluoranthene	ND		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-03
 Client ID: WC01N_COMP_12-22
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:35
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	ND		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
n-Nitrosodimethylamine	ND		ug/kg	350	34.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-03
 Client ID: WC01N_COMP_12-22
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:35
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
Atrazine	ND		ug/kg	140	62.	1
Benzaldehyde	ND		ug/kg	230	48.	1
Caprolactam	ND		ug/kg	180	54.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	61		10-136
4-Terphenyl-d14	65		18-120

Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-04
 Client ID: WCDUP01_COMP_083117
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 00:00
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/03/17 14:24

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/06/17 06:41
 Analyst: ALS
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Benzidine	ND		ug/kg	570	190	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Azobenzene	ND		ug/kg	170	17.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-04
 Client ID: WCDUP01_COMP_083117
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 00:00
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	40.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	34.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	22.	1
n-Nitrosodimethylamine	ND		ug/kg	350	33.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	380	65.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1



Project Name: 414 GERARD AVE.**Lab Number:** L1730852**Project Number:** 170488401**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730852-04
 Client ID: WCDUP01_COMP_083117
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 00:00
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
Atrazine	ND		ug/kg	140	61.	1
Benzaldehyde	ND		ug/kg	230	47.	1
Caprolactam	ND		ug/kg	170	53.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	56		10-136
4-Terphenyl-d14	57		18-120

Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-08
 Client ID: WC02A_COMP_0-6
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:26
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/03/17 14:24

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/06/17 05:25
 Analyst: ALS
 Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	130	17.	1
Benzidine	ND		ug/kg	550	180	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	16.	1
1,2-Dichlorobenzene	ND		ug/kg	170	30.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	29.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.	1
2,4-Dinitrotoluene	ND		ug/kg	170	33.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Azobenzene	ND		ug/kg	170	16.	1
Fluoranthene	ND		ug/kg	100	19.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	24.	1
Hexachlorocyclopentadiene	ND		ug/kg	480	150	1
Hexachloroethane	ND		ug/kg	130	27.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	20.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	130	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.	1
Butyl benzyl phthalate	ND		ug/kg	170	42.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	57.	1



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-08
 Client ID: WC02A_COMP_0-6
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:26
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	15.	1
Dimethyl phthalate	ND		ug/kg	170	35.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	130	41.	1
Benzo(b)fluoranthene	ND		ug/kg	100	28.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	17.	1
Acenaphthylene	ND		ug/kg	130	26.	1
Anthracene	ND		ug/kg	100	32.	1
Benzo(ghi)perylene	ND		ug/kg	130	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	ND		ug/kg	100	20.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.	1
Pyrene	ND		ug/kg	100	16.	1
Biphenyl	ND		ug/kg	380	39.	1
4-Chloroaniline	ND		ug/kg	170	30.	1
2-Nitroaniline	ND		ug/kg	170	32.	1
3-Nitroaniline	ND		ug/kg	170	31.	1
4-Nitroaniline	ND		ug/kg	170	69.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.	1
Acetophenone	ND		ug/kg	170	21.	1
n-Nitrosodimethylamine	ND		ug/kg	330	32.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	55.	1
2-Nitrophenol	ND		ug/kg	360	63.	1
4-Nitrophenol	ND		ug/kg	230	68.	1
2,4-Dinitrophenol	ND		ug/kg	800	78.	1
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.	1
Pentachlorophenol	ND		ug/kg	130	37.	1
Phenol	ND		ug/kg	170	25.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	32.	1



Project Name: 414 GERARD AVE.**Lab Number:** L1730852**Project Number:** 170488401**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730852-08
 Client ID: WC02A_COMP_0-6
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:26
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzoic Acid	ND		ug/kg	540	170	1
Benzyl Alcohol	ND		ug/kg	170	51.	1
Carbazole	ND		ug/kg	170	16.	1
Atrazine	ND		ug/kg	130	58.	1
Benzaldehyde	ND		ug/kg	220	45.	1
Caprolactam	ND		ug/kg	170	51.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	34.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	53		18-120

Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-09
 Client ID: WC02B_COMP_6-12
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:16
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/03/17 14:24

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/06/17 04:59
 Analyst: ALS
 Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Benzidine	ND		ug/kg	700	230	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Azobenzene	ND		ug/kg	210	20.	1
Fluoranthene	ND		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-09
 Client ID: WC02B_COMP_6-12
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:16
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1
Benzo(b)fluoranthene	ND		ug/kg	130	35.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	130	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	87.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
n-Nitrosodimethylamine	ND		ug/kg	420	40.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	79.	1
4-Nitrophenol	ND		ug/kg	300	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1



Project Name: 414 GERARD AVE.**Lab Number:** L1730852**Project Number:** 170488401**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730852-09
 Client ID: WC02B_COMP_6-12
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:16
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	ND		ug/kg	210	20.	1
Atrazine	ND		ug/kg	170	74.	1
Benzaldehyde	ND		ug/kg	280	57.	1
Caprolactam	ND		ug/kg	210	64.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	210	42.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	57		30-120
2,4,6-Tribromophenol	56		10-136
4-Terphenyl-d14	47		18-120

Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-10
 Client ID: WC02N_COMP_12-22
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:05
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/03/17 14:24

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/06/17 05:50
 Analyst: ALS
 Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Benzidine	ND		ug/kg	560	180	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	30.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Azobenzene	ND		ug/kg	170	16.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	150	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	81	J	ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-10
 Client ID: WC02N_COMP_12-22
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:05
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	70.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
n-Nitrosodimethylamine	ND		ug/kg	340	33.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	69.	1
2,4-Dinitrophenol	ND		ug/kg	820	79.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	82.	1
Pentachlorophenol	ND		ug/kg	140	37.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1



Project Name: 414 GERARD AVE.**Lab Number:** L1730852**Project Number:** 170488401**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730852-10
 Client ID: WC02N_COMP_12-22
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:05
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Benzoic Acid	ND		ug/kg	550	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	16.	1
Atrazine	ND		ug/kg	140	60.	1
Benzaldehyde	ND		ug/kg	220	46.	1
Caprolactam	ND		ug/kg	170	52.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	34.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	61		10-136
4-Terphenyl-d14	64		18-120

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/05/17 21:20
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 09/03/17 14:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04,08-10 Batch: WG1038259-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	540	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/05/17 21:20
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 09/03/17 14:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04,08-10 Batch: WG1038259-1					
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	330	31.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/05/17 21:20
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 09/03/17 14:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04,08-10 Batch: WG1038259-1					
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 09/05/17 21:20
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 09/03/17 14:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04,08-10 Batch: WG1038259-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	61		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,08-10 Batch: WG1038259-2 WG1038259-3								
Acenaphthene	72		70		31-137	3		50
Benzidine	46		43		10-66	7		50
1,2,4-Trichlorobenzene	71		69		38-107	3		50
Hexachlorobenzene	67		65		40-140	3		50
Bis(2-chloroethyl)ether	74		72		40-140	3		50
2-Chloronaphthalene	74		72		40-140	3		50
1,2-Dichlorobenzene	70		69		40-140	1		50
1,3-Dichlorobenzene	68		68		40-140	0		50
1,4-Dichlorobenzene	70		68		28-104	3		50
3,3'-Dichlorobenzidine	68		68		40-140	0		50
2,4-Dinitrotoluene	83		81		40-132	2		50
2,6-Dinitrotoluene	82		79		40-140	4		50
Azobenzene	82		80		40-140	2		50
Fluoranthene	74		71		40-140	4		50
4-Chlorophenyl phenyl ether	69		68		40-140	1		50
4-Bromophenyl phenyl ether	69		69		40-140	0		50
Bis(2-chloroisopropyl)ether	88		86		40-140	2		50
Bis(2-chloroethoxy)methane	79		76		40-117	4		50
Hexachlorobutadiene	70		68		40-140	3		50
Hexachlorocyclopentadiene	70		68		40-140	3		50
Hexachloroethane	77		75		40-140	3		50
Isophorone	81		78		40-140	4		50
Naphthalene	71		70		40-140	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,08-10 Batch: WG1038259-2 WG1038259-3								
Nitrobenzene	94		91		40-140	3		50
NDPA/DPA	73		71		36-157	3		50
n-Nitrosodi-n-propylamine	83		80		32-121	4		50
Bis(2-ethylhexyl)phthalate	93		89		40-140	4		50
Butyl benzyl phthalate	92		90		40-140	2		50
Di-n-butylphthalate	85		82		40-140	4		50
Di-n-octylphthalate	90		87		40-140	3		50
Diethyl phthalate	78		76		40-140	3		50
Dimethyl phthalate	78		75		40-140	4		50
Benzo(a)anthracene	75		73		40-140	3		50
Benzo(a)pyrene	77		75		40-140	3		50
Benzo(b)fluoranthene	75		73		40-140	3		50
Benzo(k)fluoranthene	73		71		40-140	3		50
Chrysene	70		69		40-140	1		50
Acenaphthylene	76		74		40-140	3		50
Anthracene	75		73		40-140	3		50
Benzo(ghi)perylene	75		72		40-140	4		50
Fluorene	72		70		40-140	3		50
Phenanthrene	72		70		40-140	3		50
Dibenzo(a,h)anthracene	75		72		40-140	4		50
Indeno(1,2,3-cd)pyrene	78		75		40-140	4		50
Pyrene	72		70		35-142	3		50
Biphenyl	76		74		54-104	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,08-10 Batch: WG1038259-2 WG1038259-3								
4-Chloroaniline	80		79		40-140	1		50
2-Nitroaniline	95		92		47-134	3		50
3-Nitroaniline	82		81		26-129	1		50
4-Nitroaniline	88		87		41-125	1		50
Dibenzofuran	72		70		40-140	3		50
2-Methylnaphthalene	73		72		40-140	1		50
1,2,4,5-Tetrachlorobenzene	71		69		40-117	3		50
Acetophenone	79		76		14-144	4		50
n-Nitrosodimethylamine	77		76		22-100	1		50
2,4,6-Trichlorophenol	84		80		30-130	5		50
p-Chloro-m-cresol	87		84		26-103	4		50
2-Chlorophenol	79		76		25-102	4		50
2,4-Dichlorophenol	84		80		30-130	5		50
2,4-Dimethylphenol	95		90		30-130	5		50
2-Nitrophenol	95		93		30-130	2		50
4-Nitrophenol	107		105		11-114	2		50
2,4-Dinitrophenol	26		36		4-130	32		50
4,6-Dinitro-o-cresol	84		85		10-130	1		50
Pentachlorophenol	61		60		17-109	2		50
Phenol	75		72		26-90	4		50
2-Methylphenol	83		80		30-130.	4		50
3-Methylphenol/4-Methylphenol	84		81		30-130	4		50
2,4,5-Trichlorophenol	84		80		30-130	5		50

Lab Control Sample Analysis Batch Quality Control

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,08-10 Batch: WG1038259-2 WG1038259-3								
Benzoic Acid	0	Q	0	Q	10-110	NC		50
Benzyl Alcohol	86		84		40-140	2		50
Carbazole	76		73		54-128	4		50
Atrazine	82		81		40-140	1		50
Benzaldehyde	70		69		40-140	1		50
Caprolactam	106		102		15-130	4		50
2,3,4,6-Tetrachlorophenol	76		73		40-140	4		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	73		72		25-120
Phenol-d6	75		72		10-120
Nitrobenzene-d5	88		86		23-120
2-Fluorobiphenyl	65		64		30-120
2,4,6-Tribromophenol	62		60		10-136
4-Terphenyl-d14	60		59		18-120



PETROLEUM HYDROCARBONS

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-05
 Client ID: WCB6_20-22
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:30
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/02/17 20:06

Matrix: Soil
 Analytical Method: 103,NJDEP EPH
 Analytical Date: 09/06/17 01:10
 Analyst: MEO
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
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Total EPH	ND		mg/kg	24.0	24.0	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	82		40-140
o-Terphenyl	82		40-140

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-06
 Client ID: WCB5_10-12
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:40
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/02/17 20:06

Matrix: Soil
 Analytical Method: 103,NJDEP EPH
 Analytical Date: 09/06/17 01:41
 Analyst: MEO
 Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
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Total EPH	ND		mg/kg	22.8	22.8	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	83		40-140
o-Terphenyl	84		40-140

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-07
 Client ID: WCB4_5-6
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:50
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/02/17 20:06

Matrix: Soil
 Analytical Method: 103,NJDEP EPH
 Analytical Date: 09/06/17 02:12
 Analyst: MEO
 Percent Solids: 98%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
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Total EPH	ND		mg/kg	23.8	23.8	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	81		40-140
o-Terphenyl	82		40-140

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-11
 Client ID: WCB1_20-22
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:00
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/02/17 20:06

Matrix: Soil
 Analytical Method: 103,NJDEP EPH
 Analytical Date: 09/06/17 02:43
 Analyst: MEO
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
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Total EPH	ND		mg/kg	24.0	24.0	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	77		40-140
o-Terphenyl	77		40-140

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-12
 Client ID: WCB2_8-9
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:10
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/02/17 20:06

Matrix: Soil
 Analytical Method: 103,NJDEP EPH
 Analytical Date: 09/06/17 03:14
 Analyst: MEO
 Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
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Total EPH	ND		mg/kg	23.8	23.8	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	85		40-140
o-Terphenyl	85		40-140

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-13
 Client ID: WCB3_2-3
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:20
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/03/17 22:18

Matrix: Soil
 Analytical Method: 103,NJDEP EPH
 Analytical Date: 09/05/17 16:56
 Analyst: MEO
 Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
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Total EPH	ND		mg/kg	23.6	23.6	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	79		40-140
o-Terphenyl	75		40-140

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-34
 Client ID: WCDUP01_GRAB_083117
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 00:00
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/03/17 22:18

Matrix: Soil
 Analytical Method: 103,NJDEP EPH
 Analytical Date: 09/05/17 17:27
 Analyst: MEO
 Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
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Total EPH	ND		mg/kg	23.0	23.0	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	74		40-140
o-Terphenyl	73		40-140

Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 103,NJDEP EPH

Extraction Method: EPA 3546

Analytical Date: 09/03/17 20:37

Extraction Date: 09/02/17 10:09

Analyst: DG

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 05-07,11-12 Batch: WG1038118-1					
Total EPH	ND		mg/kg	23.6	23.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	73		40-140
o-Terphenyl	72		40-140

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 103,NJDEP EPH
 Analytical Date: 09/05/17 14:50
 Analyst: MEO

Extraction Method: EPA 3546
 Extraction Date: 09/03/17 22:18

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 13,34 Batch: WG1038287-1					
Total EPH	ND		mg/kg	23.6	23.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	77		40-140
o-Terphenyl	77		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 05-07,11-12 Batch: WG1038118-2 WG1038118-3								
Total EPH	99		103		40-140	4		25
Nonane (C9)	82		87		40-140	6		25
Decane (C10)	89		94		40-140	5		25
Dodecane (C12)	89		93		40-140	4		25
Tetradecane (C14)	91		93		40-140	2		25
Hexadecane (C16)	93		96		40-140	3		25
Octadecane (C18)	96		98		40-140	2		25
Eicosane (C20)	95		98		40-140	3		25
Heneicosane (C21)	97		99		40-140	2		25
Docosane (C22)	96		98		40-140	2		25
Tetracosane (C24)	96		98		40-140	2		25
Hexacosane (C26)	95		98		40-140	3		25
Octacosane (C28)	93		96		40-140	3		25
triacontane (C30)	92		95		40-140	3		25
Dotriacontane (C32)	92		95		40-140	3		25
Tetracontane (C34)	90		92		40-140	2		25
Hexatriacontane (C36)	95		96		40-140	1		25
Octatriacontane (C38)	92		94		40-140	2		25
Tetracontane (C40)	90		92		40-140	2		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.

Project Number: 170488401

Lab Number: L1730852

Report Date: 09/11/17

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 05-07,11-12 Batch: WG1038118-2 WG1038118-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
Chloro-Octadecane	86		90		40-140
o-Terphenyl	88		89		40-140



Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 13,34 Batch: WG1038287-2 WG1038287-3								
Total EPH	118		122		40-140	3		25
Nonane (C9)	81		91		40-140	12		25
Decane (C10)	90		102		40-140	13		25
Dodecane (C12)	92		106		40-140	14		25
Tetradecane (C14)	96		109		40-140	13		25
Hexadecane (C16)	110		114		40-140	4		25
Octadecane (C18)	119		124		40-140	4		25
Eicosane (C20)	120		126		40-140	5		25
Heneicosane (C21)	121		127		40-140	5		25
Docosane (C22)	121		127		40-140	5		25
Tetracosane (C24)	121		127		40-140	5		25
Hexacosane (C26)	121		126		40-140	4		25
Octacosane (C28)	118		123		40-140	4		25
triacontane (C30)	117		122		40-140	4		25
Dotriacontane (C32)	116		122		40-140	5		25
Tetracontane (C34)	113		118		40-140	4		25
Hexatriacontane (C36)	118		123		40-140	4		25
Octatriacontane (C38)	115		121		40-140	5		25
Tetracontane (C40)	116		121		40-140	4		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 13,34 Batch: WG1038287-2 WG1038287-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Chloro-Octadecane	74		75		40-140
o-Terphenyl	75		77		40-140



Matrix Spike Analysis Batch Quality Control

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 05-07,11-12 QC Batch ID: WG1038118-4 QC Sample: L1730636-02 Client ID: MS Sample												
Total EPH	33.5	249	284	101		-	-		40-140	-		50
Nonane (C9)	ND	6.91	5.84	85		-	-		40-140	-		50
Decane (C10)	ND	6.91	6.28	91		-	-		40-140	-		50
Dodecane (C12)	ND	6.91	6.34	92		-	-		40-140	-		50
Tetradecane (C14)	ND	6.91	6.47	94		-	-		40-140	-		50
Hexadecane (C16)	ND	6.91	6.68	97		-	-		40-140	-		50
Octadecane (C18)	ND	6.91	6.84	99		-	-		40-140	-		50
Eicosane (C20)	ND	6.91	6.83	99		-	-		40-140	-		50
Heneicosane (C21)	ND	6.91	6.92	100		-	-		40-140	-		50
Docosane (C22)	ND	6.91	6.94	100		-	-		40-140	-		50
Tetracosane (C24)	ND	6.91	7.01	101		-	-		40-140	-		50
Hexacosane (C26)	ND	6.91	7.12	103		-	-		40-140	-		50
Octacosane (C28)	ND	6.91	7.03	102		-	-		40-140	-		50
Triacontane (C30)	ND	6.91	6.83	99		-	-		40-140	-		50
Dotriacontane (C32)	ND	6.91	6.64	96		-	-		40-140	-		50
Tetracontane (C34)	ND	6.91	6.25	90		-	-		40-140	-		50
Hexatriacontane (C36)	ND	6.91	6.81	99		-	-		40-140	-		50
Octatriacontane (C38)	ND	6.91	6.01	87		-	-		40-140	-		50
Tetracontane (C40)	ND	6.91	5.94	86		-	-		40-140	-		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Chloro-Octadecane	112				40-140



Matrix Spike Analysis Batch Quality Control

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 05-07,11-12 QC Batch ID: WG1038118-4 QC Sample: L1730636-02 Client ID: MS Sample												

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	88				40-140



Matrix Spike Analysis Batch Quality Control

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab MS Sample Associated sample(s): 13,34 QC Batch ID: WG1038287-4 QC Sample: L1730954-02 Client ID:												
Total EPH	1090	284	2220	398	Q	-	-		40-140	-		50
Nonane (C9)	ND	7.88	5.76	73		-	-		40-140	-		50
Decane (C10)	ND	7.88	7.99	101		-	-		40-140	-		50
Dodecane (C12)	ND	7.88	16.3	207	Q	-	-		40-140	-		50
Tetradecane (C14)	ND	7.88	23.6	300	Q	-	-		40-140	-		50
Hexadecane (C16)	ND	7.88	25.5	324	Q	-	-		40-140	-		50
Octadecane (C18)	ND	7.88	18.5	235	Q	-	-		40-140	-		50
Eicosane (C20)	ND	7.88	12.5	159	Q	-	-		40-140	-		50
Heneicosane (C21)	ND	7.88	11.8	150	Q	-	-		40-140	-		50
Docosane (C22)	ND	7.88	11.8	150	Q	-	-		40-140	-		50
Tetracosane (C24)	ND	7.88	8.63	110		-	-		40-140	-		50
Hexacosane (C26)	ND	7.88	7.94	101		-	-		40-140	-		50
Octacosane (C28)	ND	7.88	7.71	98		-	-		40-140	-		50
Triacontane (C30)	ND	7.88	7.64	97		-	-		40-140	-		50
Dotriacontane (C32)	ND	7.88	7.61	97		-	-		40-140	-		50
Tetraatriacontane (C34)	ND	7.88	7.49	95		-	-		40-140	-		50
Hexatriacontane (C36)	ND	7.88	7.91	100		-	-		40-140	-		50
Octatriacontane (C38)	ND	7.88	7.73	98		-	-		40-140	-		50
Tetracontane (C40)	ND	7.88	7.62	97		-	-		40-140	-		50

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
Chloro-Octadecane	92				40-140



Matrix Spike Analysis Batch Quality Control

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab MS Sample Associated sample(s): 13,34 QC Batch ID: WG1038287-4 QC Sample: L1730954-02 Client ID:												

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	84				40-140



Lab Duplicate Analysis Batch Quality Control

Project Name: 414 GERARD AVE.

Project Number: 170488401

Lab Number: L1730852

Report Date: 09/11/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 05-07,11-12 QC Batch ID: WG1038118-5 QC Sample: L1730636-02 Client ID: DUP Sample						
Total EPH	33.5	44.2	mg/kg	28		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	87		84		40-140
o-Terphenyl	87		84		40-140



Lab Duplicate Analysis Batch Quality Control

Project Name: 414 GERARD AVE.

Project Number: 170488401

Lab Number: L1730852

Report Date: 09/11/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 13,34 QC Batch ID: WG1038287-5 QC Sample: L1730954-02 Client ID: DUP Sample						
Total EPH	1090	1660	mg/kg	41		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	84		94		40-140
o-Terphenyl	81		89		40-140



PCBS

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-01
Client ID: WC01A_COMP_0-6
Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:56
Date Received: 08/31/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 09/03/17 17:25
Cleanup Method: EPA 3665A
Cleanup Date: 09/04/17
Cleanup Method: EPA 3660B
Cleanup Date: 09/04/17

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/05/17 10:00
Analyst: HT
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.9	3.95	1	A
Aroclor 1221	ND		ug/kg	34.9	5.31	1	A
Aroclor 1232	ND		ug/kg	34.9	3.43	1	A
Aroclor 1242	ND		ug/kg	34.9	4.27	1	A
Aroclor 1248	ND		ug/kg	34.9	3.91	1	A
Aroclor 1254	ND		ug/kg	34.9	2.84	1	A
Aroclor 1260	ND		ug/kg	34.9	3.64	1	A
Aroclor 1262	ND		ug/kg	34.9	2.87	1	A
Aroclor 1268	ND		ug/kg	34.9	2.47	1	A
PCBs, Total	ND		ug/kg	34.9	2.47	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-02
Client ID: WC01B_COMP_6-12
Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:46
Date Received: 08/31/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 09/03/17 17:25
Cleanup Method: EPA 3665A
Cleanup Date: 09/04/17
Cleanup Method: EPA 3660B
Cleanup Date: 09/04/17

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/05/17 10:14
Analyst: HT
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.1	3.76	1	A
Aroclor 1221	ND		ug/kg	33.1	5.04	1	A
Aroclor 1232	ND		ug/kg	33.1	3.26	1	A
Aroclor 1242	ND		ug/kg	33.1	4.06	1	A
Aroclor 1248	ND		ug/kg	33.1	3.72	1	A
Aroclor 1254	ND		ug/kg	33.1	2.70	1	A
Aroclor 1260	ND		ug/kg	33.1	3.46	1	A
Aroclor 1262	ND		ug/kg	33.1	2.72	1	A
Aroclor 1268	ND		ug/kg	33.1	2.35	1	A
PCBs, Total	ND		ug/kg	33.1	2.35	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-03
 Client ID: WC01N_COMP_12-22
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:35
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/03/17 17:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/04/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/04/17

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/05/17 10:28
 Analyst: HT
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.5	4.02	1	A
Aroclor 1221	ND		ug/kg	35.5	5.40	1	A
Aroclor 1232	ND		ug/kg	35.5	3.49	1	A
Aroclor 1242	ND		ug/kg	35.5	4.34	1	A
Aroclor 1248	ND		ug/kg	35.5	3.98	1	A
Aroclor 1254	ND		ug/kg	35.5	2.90	1	A
Aroclor 1260	ND		ug/kg	35.5	3.70	1	A
Aroclor 1262	ND		ug/kg	35.5	2.92	1	A
Aroclor 1268	ND		ug/kg	35.5	2.51	1	A
PCBs, Total	ND		ug/kg	35.5	2.51	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	79		30-150	B



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-04
Client ID: WCDUP01_COMP_083117
Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 00:00
Date Received: 08/31/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 09/03/17 17:25
Cleanup Method: EPA 3665A
Cleanup Date: 09/04/17
Cleanup Method: EPA 3660B
Cleanup Date: 09/04/17

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/05/17 10:43
Analyst: HT
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.3	3.89	1	A
Aroclor 1221	ND		ug/kg	34.3	5.22	1	A
Aroclor 1232	ND		ug/kg	34.3	3.37	1	A
Aroclor 1242	ND		ug/kg	34.3	4.20	1	A
Aroclor 1248	ND		ug/kg	34.3	3.85	1	A
Aroclor 1254	ND		ug/kg	34.3	2.80	1	A
Aroclor 1260	ND		ug/kg	34.3	3.58	1	A
Aroclor 1262	ND		ug/kg	34.3	2.82	1	A
Aroclor 1268	ND		ug/kg	34.3	2.43	1	A
PCBs, Total	ND		ug/kg	34.3	2.43	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-08
Client ID: WC02A_COMP_0-6
Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:26
Date Received: 08/31/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 09/03/17 17:25
Cleanup Method: EPA 3665A
Cleanup Date: 09/04/17
Cleanup Method: EPA 3660B
Cleanup Date: 09/04/17

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/05/17 10:57
Analyst: HT
Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.5	3.80	1	A
Aroclor 1221	ND		ug/kg	33.5	5.10	1	A
Aroclor 1232	ND		ug/kg	33.5	3.30	1	A
Aroclor 1242	ND		ug/kg	33.5	4.10	1	A
Aroclor 1248	ND		ug/kg	33.5	3.76	1	A
Aroclor 1254	ND		ug/kg	33.5	2.74	1	A
Aroclor 1260	ND		ug/kg	33.5	3.50	1	A
Aroclor 1262	ND		ug/kg	33.5	2.76	1	A
Aroclor 1268	ND		ug/kg	33.5	2.37	1	A
PCBs, Total	ND		ug/kg	33.5	2.37	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-09
Client ID: WC02B_COMP_6-12
Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:16
Date Received: 08/31/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 09/03/17 17:25
Cleanup Method: EPA 3665A
Cleanup Date: 09/04/17
Cleanup Method: EPA 3660B
Cleanup Date: 09/04/17

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/05/17 11:11
Analyst: HT
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.4	4.70	1	A
Aroclor 1221	ND		ug/kg	41.4	6.30	1	A
Aroclor 1232	ND		ug/kg	41.4	4.07	1	A
Aroclor 1242	ND		ug/kg	41.4	5.07	1	A
Aroclor 1248	ND		ug/kg	41.4	4.65	1	A
Aroclor 1254	ND		ug/kg	41.4	3.38	1	A
Aroclor 1260	ND		ug/kg	41.4	4.32	1	A
Aroclor 1262	ND		ug/kg	41.4	3.40	1	A
Aroclor 1268	ND		ug/kg	41.4	2.93	1	A
PCBs, Total	ND		ug/kg	41.4	2.93	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	84		30-150	B



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-10
Client ID: WC02N_COMP_12-22
Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:05
Date Received: 08/31/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 09/03/17 17:25
Cleanup Method: EPA 3665A
Cleanup Date: 09/04/17
Cleanup Method: EPA 3660B
Cleanup Date: 09/04/17

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/05/17 11:25
Analyst: HT
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.7	3.82	1	A
Aroclor 1221	ND		ug/kg	33.7	5.13	1	A
Aroclor 1232	ND		ug/kg	33.7	3.32	1	A
Aroclor 1242	ND		ug/kg	33.7	4.13	1	A
Aroclor 1248	ND		ug/kg	33.7	3.78	1	A
Aroclor 1254	ND		ug/kg	33.7	2.75	1	A
Aroclor 1260	ND		ug/kg	33.7	3.52	1	A
Aroclor 1262	ND		ug/kg	33.7	2.77	1	A
Aroclor 1268	ND		ug/kg	33.7	2.39	1	A
PCBs, Total	ND		ug/kg	33.7	2.39	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 09/05/17 12:36
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 09/03/17 17:25
Cleanup Method: EPA 3665A
Cleanup Date: 09/04/17
Cleanup Method: EPA 3660B
Cleanup Date: 09/04/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-04,08-10 Batch: WG1038276-1						
Aroclor 1016	ND		ug/kg	32.7	3.71	A
Aroclor 1221	ND		ug/kg	32.7	4.98	A
Aroclor 1232	ND		ug/kg	32.7	3.22	A
Aroclor 1242	ND		ug/kg	32.7	4.01	A
Aroclor 1248	ND		ug/kg	32.7	3.67	A
Aroclor 1254	ND		ug/kg	32.7	2.67	A
Aroclor 1260	ND		ug/kg	32.7	3.42	A
Aroclor 1262	ND		ug/kg	32.7	2.69	A
Aroclor 1268	ND		ug/kg	32.7	2.32	A
PCBs, Total	ND		ug/kg	32.7	2.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	80		30-150	B



Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.

Project Number: 170488401

Lab Number: L1730852

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-04,08-10 Batch: WG1038276-2 WG1038276-3									
Aroclor 1016	72		73		40-140	1		50	A
Aroclor 1260	68		71		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		78		30-150	A
Decachlorobiphenyl	77		81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		81		30-150	B
Decachlorobiphenyl	81		84		30-150	B

PESTICIDES

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-01
 Client ID: WC01A_COMP_0-6
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:56
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/03/17 15:42
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/04/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/07/17 18:11
 Analyst: DM
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.58	0.309	1	A
Lindane	ND		ug/kg	0.657	0.294	1	A
Alpha-BHC	ND		ug/kg	0.657	0.187	1	A
Beta-BHC	ND		ug/kg	1.58	0.598	1	A
Heptachlor	ND		ug/kg	0.789	0.354	1	A
Aldrin	ND		ug/kg	1.58	0.555	1	A
Heptachlor epoxide	ND		ug/kg	2.96	0.887	1	A
Endrin	ND		ug/kg	0.657	0.269	1	A
Endrin aldehyde	1.35	J	ug/kg	1.97	0.690	1	B
Endrin ketone	ND		ug/kg	1.58	0.406	1	A
Dieldrin	ND		ug/kg	0.986	0.493	1	A
4,4'-DDE	3.04	P	ug/kg	1.58	0.365	1	A
4,4'-DDD	ND		ug/kg	1.58	0.562	1	A
4,4'-DDT	ND		ug/kg	2.96	1.27	1	A
Endosulfan I	ND		ug/kg	1.58	0.373	1	A
Endosulfan II	ND		ug/kg	1.58	0.527	1	A
Endosulfan sulfate	ND		ug/kg	0.657	0.313	1	A
Methoxychlor	ND	PI	ug/kg	2.96	0.920	1	A
Toxaphene	ND		ug/kg	29.6	8.28	1	A
cis-Chlordane	0.652	J	ug/kg	1.97	0.549	1	A
trans-Chlordane	0.794	J	ug/kg	1.97	0.520	1	A
Chlordane	ND		ug/kg	12.8	5.22	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	114		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	61		30-150	A



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-01
 Client ID: WC01A_COMP_0-6
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:56
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 09/04/17 01:30

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 09/06/17 13:59
 Analyst: SL
 Percent Solids: 95%
 Methylation Date: 09/04/17 20:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	172	10.8	1	B
2,4,5-T	ND		ug/kg	172	5.32	1	A
2,4,5-TP (Silvex)	ND		ug/kg	172	4.56	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	129		30-150	A
DCAA	111		30-150	B

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-02
 Client ID: WC01B_COMP_6-12
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:46
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/03/17 15:42
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/04/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/05/17 23:56
 Analyst: SL
 Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.65	0.323	1	A
Lindane	ND		ug/kg	0.686	0.307	1	A
Alpha-BHC	ND		ug/kg	0.686	0.195	1	A
Beta-BHC	ND		ug/kg	1.65	0.625	1	A
Heptachlor	ND		ug/kg	0.824	0.369	1	A
Aldrin	ND		ug/kg	1.65	0.580	1	A
Heptachlor epoxide	ND		ug/kg	3.09	0.927	1	A
Endrin	ND		ug/kg	0.686	0.282	1	A
Endrin aldehyde	ND		ug/kg	2.06	0.721	1	A
Endrin ketone	ND		ug/kg	1.65	0.424	1	A
Dieldrin	ND		ug/kg	1.03	0.515	1	A
4,4'-DDE	ND		ug/kg	1.65	0.381	1	A
4,4'-DDD	ND		ug/kg	1.65	0.588	1	A
4,4'-DDT	ND		ug/kg	3.09	1.32	1	A
Endosulfan I	ND		ug/kg	1.65	0.389	1	A
Endosulfan II	ND		ug/kg	1.65	0.551	1	A
Endosulfan sulfate	ND		ug/kg	0.686	0.327	1	A
Methoxychlor	ND		ug/kg	3.09	0.961	1	A
Toxaphene	ND		ug/kg	30.9	8.65	1	A
cis-Chlordane	ND		ug/kg	2.06	0.574	1	A
trans-Chlordane	ND		ug/kg	2.06	0.544	1	A
Chlordane	ND		ug/kg	13.4	5.46	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	97		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	75		30-150	A



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-02
 Client ID: WC01B_COMP_6-12
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:46
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 09/04/17 01:30

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 09/06/17 13:37
 Analyst: SL
 Percent Solids: 96%
 Methylation Date: 09/04/17 20:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	172	10.8	1	A
2,4,5-T	ND		ug/kg	172	5.34	1	A
2,4,5-TP (Silvex)	ND		ug/kg	172	4.58	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	115		30-150	A
DCAA	110		30-150	B

Project Name: 414 GERARD AVE.**Lab Number:** L1730852**Project Number:** 170488401**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730852-03
 Client ID: WC01N_COMP_12-22
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:35
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/03/17 15:42
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/04/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/06/17 00:09
 Analyst: SL
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	0.330	1	A
Lindane	ND		ug/kg	0.703	0.314	1	A
Alpha-BHC	ND		ug/kg	0.703	0.200	1	A
Beta-BHC	ND		ug/kg	1.69	0.640	1	A
Heptachlor	ND		ug/kg	0.843	0.378	1	A
Aldrin	ND		ug/kg	1.69	0.594	1	A
Heptachlor epoxide	ND		ug/kg	3.16	0.949	1	A
Endrin	ND		ug/kg	0.703	0.288	1	A
Endrin aldehyde	ND		ug/kg	2.11	0.738	1	A
Endrin ketone	ND		ug/kg	1.69	0.434	1	A
Dieldrin	ND		ug/kg	1.05	0.527	1	A
4,4'-DDE	ND		ug/kg	1.69	0.390	1	A
4,4'-DDD	ND		ug/kg	1.69	0.602	1	A
4,4'-DDT	ND		ug/kg	3.16	1.36	1	A
Endosulfan I	ND		ug/kg	1.69	0.398	1	A
Endosulfan II	ND		ug/kg	1.69	0.564	1	A
Endosulfan sulfate	ND		ug/kg	0.703	0.334	1	A
Methoxychlor	ND		ug/kg	3.16	0.984	1	A
Toxaphene	ND		ug/kg	31.6	8.86	1	A
cis-Chlordane	ND		ug/kg	2.11	0.588	1	A
trans-Chlordane	ND		ug/kg	2.11	0.557	1	A
Chlordane	ND		ug/kg	13.7	5.59	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	92		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	80		30-150	A



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-03
 Client ID: WC01N_COMP_12-22
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 07:35
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 09/04/17 01:30

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 09/06/17 13:16
 Analyst: SL
 Percent Solids: 93%
 Methylation Date: 09/04/17 20:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	178	11.2	1	A
2,4,5-T	ND		ug/kg	178	5.53	1	A
2,4,5-TP (Silvex)	ND		ug/kg	178	4.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	115		30-150	A
DCAA	100		30-150	B

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-04
 Client ID: WCDUP01_COMP_083117
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 00:00
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/03/17 15:42
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/04/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/06/17 00:22
 Analyst: SL
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.64	0.321	1	A
Lindane	ND		ug/kg	0.683	0.305	1	A
Alpha-BHC	ND		ug/kg	0.683	0.194	1	A
Beta-BHC	ND		ug/kg	1.64	0.621	1	A
Heptachlor	ND		ug/kg	0.819	0.367	1	A
Aldrin	ND		ug/kg	1.64	0.577	1	A
Heptachlor epoxide	ND		ug/kg	3.07	0.922	1	A
Endrin	ND		ug/kg	0.683	0.280	1	A
Endrin aldehyde	ND		ug/kg	2.05	0.717	1	A
Endrin ketone	ND		ug/kg	1.64	0.422	1	A
Dieldrin	ND		ug/kg	1.02	0.512	1	A
4,4'-DDE	ND		ug/kg	1.64	0.379	1	A
4,4'-DDD	ND		ug/kg	1.64	0.584	1	A
4,4'-DDT	ND		ug/kg	3.07	1.32	1	A
Endosulfan I	ND		ug/kg	1.64	0.387	1	A
Endosulfan II	ND		ug/kg	1.64	0.548	1	A
Endosulfan sulfate	ND		ug/kg	0.683	0.325	1	A
Methoxychlor	ND		ug/kg	3.07	0.956	1	A
Toxaphene	ND		ug/kg	30.7	8.60	1	A
cis-Chlordane	ND		ug/kg	2.05	0.571	1	A
trans-Chlordane	ND		ug/kg	2.05	0.541	1	A
Chlordane	ND		ug/kg	13.3	5.43	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	84		30-150	A



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-04
 Client ID: WCDUP01_COMP_083117
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 00:00
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 09/04/17 01:30

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 09/06/17 12:33
 Analyst: SL
 Percent Solids: 94%
 Methylation Date: 09/04/17 20:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	176	11.1	1	A
2,4,5-T	ND		ug/kg	176	5.45	1	A
2,4,5-TP (Silvex)	ND		ug/kg	176	4.68	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	118		30-150	A
DCAA	101		30-150	B

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-08
 Client ID: WC02A_COMP_0-6
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:26
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/03/17 15:42
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/04/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/06/17 00:35
 Analyst: SL
 Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.54	0.302	1	A
Lindane	ND		ug/kg	0.642	0.287	1	A
Alpha-BHC	ND		ug/kg	0.642	0.182	1	A
Beta-BHC	ND		ug/kg	1.54	0.584	1	A
Heptachlor	ND		ug/kg	0.770	0.345	1	A
Aldrin	ND		ug/kg	1.54	0.542	1	A
Heptachlor epoxide	ND		ug/kg	2.89	0.866	1	A
Endrin	ND		ug/kg	0.642	0.263	1	A
Endrin aldehyde	ND		ug/kg	1.92	0.674	1	A
Endrin ketone	ND		ug/kg	1.54	0.396	1	A
Dieldrin	ND		ug/kg	0.963	0.481	1	A
4,4'-DDE	ND		ug/kg	1.54	0.356	1	A
4,4'-DDD	ND		ug/kg	1.54	0.549	1	A
4,4'-DDT	ND		ug/kg	2.89	1.24	1	A
Endosulfan I	ND		ug/kg	1.54	0.364	1	A
Endosulfan II	ND		ug/kg	1.54	0.515	1	A
Endosulfan sulfate	ND		ug/kg	0.642	0.305	1	A
Methoxychlor	ND		ug/kg	2.89	0.898	1	A
Toxaphene	ND		ug/kg	28.9	8.08	1	A
cis-Chlordane	ND		ug/kg	1.92	0.536	1	A
trans-Chlordane	ND		ug/kg	1.92	0.508	1	A
Chlordane	ND		ug/kg	12.5	5.10	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	93		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	87		30-150	A



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-08
 Client ID: WC02A_COMP_0-6
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:26
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 09/06/17 18:19

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 09/07/17 07:53
 Analyst: SL
 Percent Solids: 99%
 Methylation Date: 09/06/17 23:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	167	10.5	1	A
2,4,5-T	ND		ug/kg	167	5.17	1	A
2,4,5-TP (Silvex)	ND		ug/kg	167	4.44	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	65		30-150	A
DCAA	57		30-150	B

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-09
 Client ID: WC02B_COMP_6-12
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:16
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/03/17 15:42
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/04/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/06/17 00:48
 Analyst: SL
 Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.97	0.386	1	A
Lindane	ND		ug/kg	0.820	0.367	1	A
Alpha-BHC	ND		ug/kg	0.820	0.233	1	A
Beta-BHC	ND		ug/kg	1.97	0.746	1	A
Heptachlor	ND		ug/kg	0.984	0.441	1	A
Aldrin	ND		ug/kg	1.97	0.693	1	A
Heptachlor epoxide	ND		ug/kg	3.69	1.11	1	A
Endrin	ND		ug/kg	0.820	0.336	1	A
Endrin aldehyde	ND		ug/kg	2.46	0.861	1	A
Endrin ketone	ND		ug/kg	1.97	0.507	1	A
Dieldrin	ND		ug/kg	1.23	0.615	1	A
4,4'-DDE	ND		ug/kg	1.97	0.455	1	A
4,4'-DDD	ND		ug/kg	1.97	0.702	1	A
4,4'-DDT	ND		ug/kg	3.69	1.58	1	A
Endosulfan I	ND		ug/kg	1.97	0.465	1	A
Endosulfan II	ND		ug/kg	1.97	0.658	1	A
Endosulfan sulfate	ND		ug/kg	0.820	0.390	1	A
Methoxychlor	ND		ug/kg	3.69	1.15	1	A
Toxaphene	ND		ug/kg	36.9	10.3	1	A
cis-Chlordane	ND		ug/kg	2.46	0.686	1	A
trans-Chlordane	ND		ug/kg	2.46	0.650	1	A
Chlordane	ND		ug/kg	16.0	6.52	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	116		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	106		30-150	A



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-09
 Client ID: WC02B_COMP_6-12
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:16
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 09/04/17 01:30

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 09/06/17 11:50
 Analyst: SL
 Percent Solids: 78%
 Methylation Date: 09/04/17 20:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	209	13.2	1	A
2,4,5-T	ND		ug/kg	209	6.49	1	A
2,4,5-TP (Silvex)	ND		ug/kg	209	5.57	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	119		30-150	A
DCAA	107		30-150	B

Project Name: 414 GERARD AVE.**Lab Number:** L1730852**Project Number:** 170488401**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730852-10
 Client ID: WC02N_COMP_12-22
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:05
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/03/17 15:42
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/04/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/06/17 01:01
 Analyst: SL
 Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.63	0.320	1	A
Lindane	ND		ug/kg	0.681	0.304	1	A
Alpha-BHC	ND		ug/kg	0.681	0.193	1	A
Beta-BHC	ND		ug/kg	1.63	0.620	1	A
Heptachlor	ND		ug/kg	0.817	0.366	1	A
Aldrin	ND		ug/kg	1.63	0.575	1	A
Heptachlor epoxide	ND		ug/kg	3.06	0.919	1	A
Endrin	ND		ug/kg	0.681	0.279	1	A
Endrin aldehyde	ND		ug/kg	2.04	0.715	1	A
Endrin ketone	ND		ug/kg	1.63	0.421	1	A
Dieldrin	ND		ug/kg	1.02	0.511	1	A
4,4'-DDE	ND		ug/kg	1.63	0.378	1	A
4,4'-DDD	ND		ug/kg	1.63	0.583	1	A
4,4'-DDT	ND		ug/kg	3.06	1.31	1	A
Endosulfan I	ND		ug/kg	1.63	0.386	1	A
Endosulfan II	ND		ug/kg	1.63	0.546	1	A
Endosulfan sulfate	ND		ug/kg	0.681	0.324	1	A
Methoxychlor	ND		ug/kg	3.06	0.953	1	A
Toxaphene	ND		ug/kg	30.6	8.58	1	A
cis-Chlordane	ND		ug/kg	2.04	0.569	1	A
trans-Chlordane	ND		ug/kg	2.04	0.539	1	A
Chlordane	ND		ug/kg	13.3	5.41	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	103		30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	103		30-150	A



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-10
 Client ID: WC02N_COMP_12-22
 Sample Location: BRONX, NEW YORK

Date Collected: 08/31/17 08:05
 Date Received: 08/31/17
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 09/04/17 01:30

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 09/06/17 11:29
 Analyst: SL
 Percent Solids: 96%
 Methylation Date: 09/04/17 20:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	172	10.8	1	A
2,4,5-T	ND		ug/kg	172	5.32	1	A
2,4,5-TP (Silvex)	ND		ug/kg	172	4.56	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	116		30-150	A
DCAA	103		30-150	B

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/03/17 23:06
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 09/02/17 16:36
Cleanup Method: EPA 3620B
Cleanup Date: 09/03/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-04,08-10 Batch: WG1038198-1						
Delta-BHC	ND		ug/kg	1.54	0.301	A
Lindane	ND		ug/kg	0.640	0.286	A
Alpha-BHC	ND		ug/kg	0.640	0.182	A
Beta-BHC	ND		ug/kg	1.54	0.582	A
Heptachlor	ND		ug/kg	0.768	0.344	A
Aldrin	ND		ug/kg	1.54	0.541	A
Heptachlor epoxide	ND		ug/kg	2.88	0.864	A
Endrin	ND		ug/kg	0.640	0.262	A
Endrin aldehyde	ND		ug/kg	1.92	0.672	A
Endrin ketone	ND		ug/kg	1.54	0.396	A
Dieldrin	ND		ug/kg	0.960	0.480	A
4,4'-DDE	ND		ug/kg	1.54	0.355	A
4,4'-DDD	ND		ug/kg	1.54	0.548	A
4,4'-DDT	ND		ug/kg	2.88	1.24	A
Endosulfan I	ND		ug/kg	1.54	0.363	A
Endosulfan II	ND		ug/kg	1.54	0.513	A
Endosulfan sulfate	ND		ug/kg	0.640	0.305	A
Methoxychlor	ND		ug/kg	2.88	0.896	A
Toxaphene	ND		ug/kg	28.8	8.07	A
cis-Chlordane	ND		ug/kg	1.92	0.535	A
trans-Chlordane	ND		ug/kg	1.92	0.507	A
Chlordane	ND		ug/kg	12.5	5.09	A

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 09/03/17 23:06
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 09/02/17 16:36
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/03/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-04,08-10 Batch: WG1038198-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	110		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	61		30-150	A

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
 Analytical Date: 09/06/17 07:34
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 09/04/17 01:30

Methylation Date: 09/04/17 20:44

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-04,09-10 Batch: WG1038293-1						
2,4-D	ND		ug/kg	164	10.3	A
2,4,5-T	ND		ug/kg	164	5.08	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.36	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	115		30-150	A
DCAA	99		30-150	B

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
 Analytical Date: 09/07/17 06:15
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 09/06/17 15:59

Methylation Date: 09/06/17 23:15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 08 Batch: WG1039029-1						
2,4-D	ND		ug/kg	164	10.3	A
2,4,5-T	ND		ug/kg	164	5.07	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.35	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	59		30-150	A
DCAA	50		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.

Project Number: 170488401

Lab Number: L1730852

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04,08-10 Batch: WG1038198-2 WG1038198-3									
Delta-BHC	77		86		30-150	11		30	A
Lindane	80		88		30-150	10		30	A
Alpha-BHC	83		91		30-150	9		30	A
Beta-BHC	79		85		30-150	7		30	A
Heptachlor	88		95		30-150	8		30	A
Aldrin	82		91		30-150	10		30	A
Heptachlor epoxide	80		88		30-150	10		30	A
Endrin	84		92		30-150	9		30	A
Endrin aldehyde	47		55		30-150	16		30	A
Endrin ketone	63		72		30-150	13		30	A
Dieldrin	86		94		30-150	9		30	A
4,4'-DDE	87		94		30-150	8		30	A
4,4'-DDD	82		91		30-150	10		30	A
4,4'-DDT	84		92		30-150	9		30	A
Endosulfan I	78		86		30-150	10		30	A
Endosulfan II	73		82		30-150	12		30	A
Endosulfan sulfate	39		45		30-150	14		30	A
Methoxychlor	79		89		30-150	12		30	A
cis-Chlordane	72		80		30-150	11		30	A
trans-Chlordane	76		83		30-150	9		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04,08-10 Batch: WG1038198-2 WG1038198-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	79		86		30-150	B
Decachlorobiphenyl	103		115		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		83		30-150	A
Decachlorobiphenyl	45		53		30-150	A



Lab Control Sample Analysis Batch Quality Control

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-04,09-10 Batch: WG1038293-2 WG1038293-3									
2,4-D	86		95		30-150	10		30	A
2,4,5-T	88		98		30-150	11		30	A
2,4,5-TP (Silvex)	86		94		30-150	9		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	105		122		30-150	A
DCAA	101		115		30-150	B



Lab Control Sample Analysis Batch Quality Control

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 08 Batch: WG1039029-2 WG1039029-3									
2,4-D	68		69		30-150	1		30	A
2,4,5-T	66		63		30-150	5		30	A
2,4,5-TP (Silvex)	61		57		30-150	7		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	66		64		30-150	A
DCAA	58		60		30-150	B



METALS

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-01
 Client ID: WC01A_COMP_0-6
 Sample Location: BRONX, NEW YORK
 Matrix: Soil
 Percent Solids: 95%

Date Collected: 08/31/17 07:56
 Date Received: 08/31/17
 Field Prep: Not Specified
 TCLP/SPLP Ext. Date: 09/03/17 23:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	09/06/17 18:13	09/07/17 17:13	EPA 3015	1,6010C	AB
Barium, TCLP	0.436	J	mg/l	0.500	0.021	1	09/06/17 18:13	09/07/17 17:13	EPA 3015	1,6010C	AB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	09/06/17 18:13	09/07/17 17:13	EPA 3015	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	09/06/17 18:13	09/07/17 17:13	EPA 3015	1,6010C	AB
Lead, TCLP	0.215	J	mg/l	0.500	0.027	1	09/06/17 18:13	09/07/17 17:13	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	09/06/17 14:02	09/07/17 18:20	EPA 7470A	1,7470A	MG
Selenium, TCLP	0.035	J	mg/l	0.500	0.035	1	09/06/17 18:13	09/07/17 17:13	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	09/06/17 18:13	09/07/17 17:13	EPA 3015	1,6010C	AB



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-01
 Client ID: WC01A_COMP_0-6
 Sample Location: BRONX, NEW YORK
 Matrix: Soil
 Percent Solids: 95%

Date Collected: 08/31/17 07:56
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7630		mg/kg	8.33	2.25	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
Antimony, Total	1.02	J	mg/kg	4.17	0.317	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
Arsenic, Total	4.11		mg/kg	0.833	0.173	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
Barium, Total	101		mg/kg	0.833	0.145	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
Beryllium, Total	0.325	J	mg/kg	0.417	0.028	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
Cadmium, Total	ND		mg/kg	0.833	0.082	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
Calcium, Total	19900		mg/kg	8.33	2.92	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
Chromium, Total	14.5		mg/kg	0.833	0.080	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
Cobalt, Total	4.30		mg/kg	1.67	0.138	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
Copper, Total	40.7		mg/kg	0.833	0.215	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
Iron, Total	12400		mg/kg	4.17	0.752	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
Lead, Total	191		mg/kg	4.17	0.223	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
Magnesium, Total	5120		mg/kg	8.33	1.28	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
Manganese, Total	231		mg/kg	0.833	0.132	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
Mercury, Total	0.09		mg/kg	0.07	0.01	1	09/01/17 08:30	09/02/17 13:18	EPA 7471B	1,7471B	BV
Nickel, Total	9.86		mg/kg	2.08	0.202	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
Potassium, Total	727		mg/kg	208	12.0	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
Selenium, Total	0.425	J	mg/kg	1.67	0.215	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
Silver, Total	ND		mg/kg	0.833	0.236	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
Sodium, Total	201		mg/kg	167	2.62	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
Thallium, Total	ND		mg/kg	1.67	0.262	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
Vanadium, Total	13.7		mg/kg	0.833	0.169	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
Zinc, Total	105		mg/kg	4.17	0.244	2	09/01/17 20:32	09/07/17 14:11	EPA 3050B	1,6010C	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	14		mg/kg	0.84	0.84	1		09/07/17 14:11	NA	107,-	



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-02

Date Collected: 08/31/17 07:46

Client ID: WC01B_COMP_6-12

Date Received: 08/31/17

Sample Location: BRONX, NEW YORK

Field Prep: Not Specified

Matrix: Soil

TCLP/SPLP Ext. Date: 09/03/17 23:44

Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.036	J	mg/l	1.00	0.019	1	09/06/17 18:13	09/07/17 17:18	EPA 3015	1,6010C	AB
Barium, TCLP	0.300	J	mg/l	0.500	0.021	1	09/06/17 18:13	09/07/17 17:18	EPA 3015	1,6010C	AB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	09/06/17 18:13	09/07/17 17:18	EPA 3015	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	09/06/17 18:13	09/07/17 17:18	EPA 3015	1,6010C	AB
Lead, TCLP	ND		mg/l	0.500	0.027	1	09/06/17 18:13	09/07/17 17:18	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	09/06/17 14:02	09/07/17 18:22	EPA 7470A	1,7470A	MG
Selenium, TCLP	ND		mg/l	0.500	0.035	1	09/06/17 18:13	09/07/17 17:18	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	09/06/17 18:13	09/07/17 17:18	EPA 3015	1,6010C	AB



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-02
 Client ID: WC01B_COMP_6-12
 Sample Location: BRONX, NEW YORK
 Matrix: Soil
 Percent Solids: 96%

Date Collected: 08/31/17 07:46
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5110		mg/kg	7.89	2.13	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
Antimony, Total	ND		mg/kg	3.95	0.300	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
Arsenic, Total	1.06		mg/kg	0.789	0.164	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
Barium, Total	20.5		mg/kg	0.789	0.137	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
Beryllium, Total	0.221	J	mg/kg	0.395	0.026	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
Cadmium, Total	ND		mg/kg	0.789	0.077	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
Calcium, Total	345		mg/kg	7.89	2.76	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
Chromium, Total	6.59		mg/kg	0.789	0.076	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
Cobalt, Total	2.75		mg/kg	1.58	0.131	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
Copper, Total	6.27		mg/kg	0.789	0.204	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
Iron, Total	7500		mg/kg	3.95	0.713	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
Lead, Total	3.02	J	mg/kg	3.95	0.212	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
Magnesium, Total	1380		mg/kg	7.89	1.22	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
Manganese, Total	225		mg/kg	0.789	0.125	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
Mercury, Total	ND		mg/kg	0.07	0.01	1	09/01/17 08:30	09/02/17 13:20	EPA 7471B	1,7471B	BV
Nickel, Total	6.16		mg/kg	1.97	0.191	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
Potassium, Total	381		mg/kg	197	11.4	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
Selenium, Total	ND		mg/kg	1.58	0.204	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
Silver, Total	ND		mg/kg	0.789	0.223	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
Sodium, Total	33.4	J	mg/kg	158	2.49	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
Thallium, Total	ND		mg/kg	1.58	0.249	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
Vanadium, Total	7.75		mg/kg	0.789	0.160	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
Zinc, Total	14.3		mg/kg	3.95	0.231	2	09/01/17 20:32	09/07/17 14:16	EPA 3050B	1,6010C	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	6.6		mg/kg	0.83	0.83	1		09/07/17 14:16	NA	107,-	



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-03
 Client ID: WC01N_COMP_12-22
 Sample Location: BRONX, NEW YORK
 Matrix: Soil
 Percent Solids: 93%

Date Collected: 08/31/17 07:35
 Date Received: 08/31/17
 Field Prep: Not Specified
 TCLP/SPLP Ext. Date: 09/03/17 23:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	09/06/17 18:13	09/07/17 17:22	EPA 3015	1,6010C	AB
Barium, TCLP	0.352	J	mg/l	0.500	0.021	1	09/06/17 18:13	09/07/17 17:22	EPA 3015	1,6010C	AB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	09/06/17 18:13	09/07/17 17:22	EPA 3015	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	09/06/17 18:13	09/07/17 17:22	EPA 3015	1,6010C	AB
Lead, TCLP	ND		mg/l	0.500	0.027	1	09/06/17 18:13	09/07/17 17:22	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	09/06/17 14:02	09/07/17 18:23	EPA 7470A	1,7470A	MG
Selenium, TCLP	ND		mg/l	0.500	0.035	1	09/06/17 18:13	09/07/17 17:22	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	09/06/17 18:13	09/07/17 17:22	EPA 3015	1,6010C	AB



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-03
 Client ID: WC01N_COMP_12-22
 Sample Location: BRONX, NEW YORK
 Matrix: Soil
 Percent Solids: 93%

Date Collected: 08/31/17 07:35
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9130		mg/kg	8.17	2.21	2	09/01/17 20:32	09/07/17 14:21	EPA 3050B	1,6010C	AM
Antimony, Total	0.556	J	mg/kg	4.08	0.310	2	09/01/17 20:32	09/07/17 14:21	EPA 3050B	1,6010C	AM
Arsenic, Total	0.392	J	mg/kg	0.817	0.170	2	09/01/17 20:32	09/07/17 14:21	EPA 3050B	1,6010C	AM
Barium, Total	34.4		mg/kg	0.817	0.142	2	09/01/17 20:32	09/07/17 14:21	EPA 3050B	1,6010C	AM
Beryllium, Total	0.229	J	mg/kg	0.408	0.027	2	09/01/17 20:32	09/07/17 14:21	EPA 3050B	1,6010C	AM
Cadmium, Total	ND		mg/kg	0.817	0.080	2	09/01/17 20:32	09/07/17 14:21	EPA 3050B	1,6010C	AM
Calcium, Total	80400		mg/kg	81.7	28.6	20	09/01/17 20:32	09/07/17 15:43	EPA 3050B	1,6010C	AM
Chromium, Total	13.4		mg/kg	0.817	0.078	2	09/01/17 20:32	09/07/17 14:21	EPA 3050B	1,6010C	AM
Cobalt, Total	5.07		mg/kg	1.63	0.136	2	09/01/17 20:32	09/07/17 14:21	EPA 3050B	1,6010C	AM
Copper, Total	20.4		mg/kg	0.817	0.211	2	09/01/17 20:32	09/07/17 14:21	EPA 3050B	1,6010C	AM
Iron, Total	9750		mg/kg	4.08	0.738	2	09/01/17 20:32	09/07/17 14:21	EPA 3050B	1,6010C	AM
Lead, Total	5.64		mg/kg	4.08	0.219	2	09/01/17 20:32	09/07/17 14:21	EPA 3050B	1,6010C	AM
Magnesium, Total	39700		mg/kg	8.17	1.26	2	09/01/17 20:32	09/07/17 14:21	EPA 3050B	1,6010C	AM
Manganese, Total	155		mg/kg	0.817	0.130	2	09/01/17 20:32	09/07/17 14:21	EPA 3050B	1,6010C	AM
Mercury, Total	0.01	J	mg/kg	0.07	0.01	1	09/01/17 08:30	09/02/17 13:21	EPA 7471B	1,7471B	BV
Nickel, Total	10.3		mg/kg	2.04	0.198	2	09/01/17 20:32	09/07/17 14:21	EPA 3050B	1,6010C	AM
Potassium, Total	1770		mg/kg	204	11.8	2	09/01/17 20:32	09/07/17 14:21	EPA 3050B	1,6010C	AM
Selenium, Total	ND		mg/kg	1.63	0.211	2	09/01/17 20:32	09/07/17 14:21	EPA 3050B	1,6010C	AM
Silver, Total	ND		mg/kg	0.817	0.231	2	09/01/17 20:32	09/07/17 14:21	EPA 3050B	1,6010C	AM
Sodium, Total	161	J	mg/kg	163	2.57	2	09/01/17 20:32	09/07/17 14:21	EPA 3050B	1,6010C	AM
Thallium, Total	ND		mg/kg	1.63	0.257	2	09/01/17 20:32	09/07/17 14:21	EPA 3050B	1,6010C	AM
Vanadium, Total	16.9		mg/kg	0.817	0.166	2	09/01/17 20:32	09/07/17 14:21	EPA 3050B	1,6010C	AM
Zinc, Total	35.2		mg/kg	4.08	0.239	2	09/01/17 20:32	09/07/17 14:21	EPA 3050B	1,6010C	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	13		mg/kg	0.86	0.86	1		09/07/17 14:21	NA	107,-	



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-04
 Client ID: WCDUP01_COMP_083117
 Sample Location: BRONX, NEW YORK
 Matrix: Soil
 Percent Solids: 94%

Date Collected: 08/31/17 00:00
 Date Received: 08/31/17
 Field Prep: Not Specified
 TCLP/SPLP Ext. Date: 09/03/17 23:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.025	J	mg/l	1.00	0.019	1	09/06/17 18:13	09/07/17 17:27	EPA 3015	1,6010C	AB
Barium, TCLP	0.379	J	mg/l	0.500	0.021	1	09/06/17 18:13	09/07/17 17:27	EPA 3015	1,6010C	AB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	09/06/17 18:13	09/07/17 17:27	EPA 3015	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	09/06/17 18:13	09/07/17 17:27	EPA 3015	1,6010C	AB
Lead, TCLP	ND		mg/l	0.500	0.027	1	09/06/17 18:13	09/07/17 17:27	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	09/06/17 14:02	09/07/17 18:25	EPA 7470A	1,7470A	MG
Selenium, TCLP	ND		mg/l	0.500	0.035	1	09/06/17 18:13	09/07/17 17:27	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	09/06/17 18:13	09/07/17 17:27	EPA 3015	1,6010C	AB



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-04
 Client ID: WCDUP01_COMP_083117
 Sample Location: BRONX, NEW YORK
 Matrix: Soil
 Percent Solids: 94%

Date Collected: 08/31/17 00:00
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7480		mg/kg	8.16	2.20	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
Antimony, Total	ND		mg/kg	4.08	0.310	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
Arsenic, Total	0.310	J	mg/kg	0.816	0.170	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
Barium, Total	35.8		mg/kg	0.816	0.142	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
Beryllium, Total	0.237	J	mg/kg	0.408	0.027	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
Cadmium, Total	ND		mg/kg	0.816	0.080	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
Calcium, Total	44200		mg/kg	8.16	2.86	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
Chromium, Total	18.0		mg/kg	0.816	0.078	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
Cobalt, Total	4.55		mg/kg	1.63	0.135	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
Copper, Total	16.7		mg/kg	0.816	0.210	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
Iron, Total	9290		mg/kg	4.08	0.737	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
Lead, Total	4.40		mg/kg	4.08	0.219	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
Magnesium, Total	27700		mg/kg	8.16	1.26	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
Manganese, Total	127		mg/kg	0.816	0.130	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
Mercury, Total	ND		mg/kg	0.07	0.01	1	09/01/17 08:30	09/02/17 13:23	EPA 7471B	1,7471B	BV
Nickel, Total	12.0		mg/kg	2.04	0.197	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
Potassium, Total	1470		mg/kg	204	11.7	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
Selenium, Total	ND		mg/kg	1.63	0.210	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
Silver, Total	ND		mg/kg	0.816	0.231	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
Sodium, Total	162	J	mg/kg	163	2.57	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
Thallium, Total	ND		mg/kg	1.63	0.257	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
Vanadium, Total	21.0		mg/kg	0.816	0.166	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
Zinc, Total	32.0		mg/kg	4.08	0.239	2	09/01/17 20:32	09/07/17 14:26	EPA 3050B	1,6010C	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	18		mg/kg	0.85	0.85	1		09/07/17 14:26	NA	107,-	



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-08
 Client ID: WC02A_COMP_0-6
 Sample Location: BRONX, NEW YORK
 Matrix: Soil
 Percent Solids: 99%

Date Collected: 08/31/17 08:26
 Date Received: 08/31/17
 Field Prep: Not Specified
 TCLP/SPLP Ext. Date: 09/03/17 23:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.022	J	mg/l	1.00	0.019	1	09/06/17 18:13	09/07/17 17:31	EPA 3015	1,6010C	AB
Barium, TCLP	0.242	J	mg/l	0.500	0.021	1	09/06/17 18:13	09/07/17 17:31	EPA 3015	1,6010C	AB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	09/06/17 18:13	09/07/17 17:31	EPA 3015	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	09/06/17 18:13	09/07/17 17:31	EPA 3015	1,6010C	AB
Lead, TCLP	ND		mg/l	0.500	0.027	1	09/06/17 18:13	09/07/17 17:31	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	09/06/17 14:02	09/07/17 18:27	EPA 7470A	1,7470A	MG
Selenium, TCLP	ND		mg/l	0.500	0.035	1	09/06/17 18:13	09/07/17 17:31	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	09/06/17 18:13	09/07/17 17:31	EPA 3015	1,6010C	AB



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-08
 Client ID: WC02A_COMP_0-6
 Sample Location: BRONX, NEW YORK
 Matrix: Soil
 Percent Solids: 99%

Date Collected: 08/31/17 08:26
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6900		mg/kg	7.92	2.14	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
Antimony, Total	ND		mg/kg	3.96	0.301	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
Arsenic, Total	2.26		mg/kg	0.792	0.165	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
Barium, Total	18.7		mg/kg	0.792	0.138	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
Beryllium, Total	0.253	J	mg/kg	0.396	0.026	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
Cadmium, Total	ND		mg/kg	0.792	0.078	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
Calcium, Total	887		mg/kg	7.92	2.77	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
Chromium, Total	9.59		mg/kg	0.792	0.076	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
Cobalt, Total	5.13		mg/kg	1.58	0.131	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
Copper, Total	11.3		mg/kg	0.792	0.204	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
Iron, Total	12800		mg/kg	3.96	0.715	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
Lead, Total	4.68		mg/kg	3.96	0.212	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
Magnesium, Total	2600		mg/kg	7.92	1.22	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
Manganese, Total	260		mg/kg	0.792	0.126	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
Mercury, Total	0.02	J	mg/kg	0.06	0.01	1	09/01/17 08:30	09/02/17 13:25	EPA 7471B	1,7471B	BV
Nickel, Total	10.7		mg/kg	1.98	0.192	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
Potassium, Total	351		mg/kg	198	11.4	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
Selenium, Total	ND		mg/kg	1.58	0.204	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
Silver, Total	ND		mg/kg	0.792	0.224	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
Sodium, Total	36.3	J	mg/kg	158	2.49	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
Thallium, Total	ND		mg/kg	1.58	0.249	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
Vanadium, Total	11.3		mg/kg	0.792	0.161	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
Zinc, Total	28.8		mg/kg	3.96	0.232	2	09/01/17 20:32	09/07/17 14:31	EPA 3050B	1,6010C	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	9.6		mg/kg	0.81	0.81	1		09/07/17 14:31	NA	107,-	



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-09
 Client ID: WC02B_COMP_6-12
 Sample Location: BRONX, NEW YORK
 Matrix: Soil
 Percent Solids: 78%

Date Collected: 08/31/17 08:16
 Date Received: 08/31/17
 Field Prep: Not Specified
 TCLP/SPLP Ext. Date: 09/03/17 23:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	09/06/17 18:13	09/07/17 17:36	EPA 3015	1,6010C	AB
Barium, TCLP	0.315	J	mg/l	0.500	0.021	1	09/06/17 18:13	09/07/17 17:36	EPA 3015	1,6010C	AB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	09/06/17 18:13	09/07/17 17:36	EPA 3015	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	09/06/17 18:13	09/07/17 17:36	EPA 3015	1,6010C	AB
Lead, TCLP	ND		mg/l	0.500	0.027	1	09/06/17 18:13	09/07/17 17:36	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	09/06/17 14:02	09/07/17 18:29	EPA 7470A	1,7470A	MG
Selenium, TCLP	ND		mg/l	0.500	0.035	1	09/06/17 18:13	09/07/17 17:36	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	09/06/17 18:13	09/07/17 17:36	EPA 3015	1,6010C	AB



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-09
 Client ID: WC02B_COMP_6-12
 Sample Location: BRONX, NEW YORK
 Matrix: Soil
 Percent Solids: 78%

Date Collected: 08/31/17 08:16
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7950		mg/kg	9.88	2.67	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
Antimony, Total	ND		mg/kg	4.94	0.376	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
Arsenic, Total	2.78		mg/kg	0.988	0.206	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
Barium, Total	27.9		mg/kg	0.988	0.172	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
Beryllium, Total	0.286	J	mg/kg	0.494	0.033	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
Cadmium, Total	ND		mg/kg	0.988	0.097	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
Calcium, Total	747		mg/kg	9.88	3.46	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
Chromium, Total	11.6		mg/kg	0.988	0.095	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
Cobalt, Total	5.96		mg/kg	1.98	0.164	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
Copper, Total	13.9		mg/kg	0.988	0.255	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
Iron, Total	15500		mg/kg	4.94	0.892	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
Lead, Total	5.22		mg/kg	4.94	0.265	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
Magnesium, Total	3140		mg/kg	9.88	1.52	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
Manganese, Total	349		mg/kg	0.988	0.157	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
Mercury, Total	0.02	J	mg/kg	0.08	0.02	1	09/01/17 08:30	09/02/17 13:27	EPA 7471B	1,7471B	BV
Nickel, Total	12.4		mg/kg	2.47	0.239	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
Potassium, Total	439		mg/kg	247	14.2	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
Selenium, Total	ND		mg/kg	1.98	0.255	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
Silver, Total	ND		mg/kg	0.988	0.280	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
Sodium, Total	40.9	J	mg/kg	198	3.11	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
Thallium, Total	ND		mg/kg	1.98	0.311	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
Vanadium, Total	13.6		mg/kg	0.988	0.201	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
Zinc, Total	35.0		mg/kg	4.94	0.290	2	09/01/17 20:32	09/07/17 14:36	EPA 3050B	1,6010C	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12		mg/kg	1.0	1.0	1		09/07/17 14:36	NA	107,-	



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-10
 Client ID: WC02N_COMP_12-22
 Sample Location: BRONX, NEW YORK
 Matrix: Soil
 Percent Solids: 96%

Date Collected: 08/31/17 08:05
 Date Received: 08/31/17
 Field Prep: Not Specified
 TCLP/SPLP Ext. Date: 09/03/17 23:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	09/06/17 18:13	09/07/17 17:41	EPA 3015	1,6010C	AB
Barium, TCLP	0.281	J	mg/l	0.500	0.021	1	09/06/17 18:13	09/07/17 17:41	EPA 3015	1,6010C	AB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	09/06/17 18:13	09/07/17 17:41	EPA 3015	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	09/06/17 18:13	09/07/17 17:41	EPA 3015	1,6010C	AB
Lead, TCLP	ND		mg/l	0.500	0.027	1	09/06/17 18:13	09/07/17 17:41	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	09/06/17 14:02	09/07/17 18:34	EPA 7470A	1,7470A	MG
Selenium, TCLP	0.049	J	mg/l	0.500	0.035	1	09/06/17 18:13	09/07/17 17:41	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	09/06/17 18:13	09/07/17 17:41	EPA 3015	1,6010C	AB



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-10
 Client ID: WC02N_COMP_12-22
 Sample Location: BRONX, NEW YORK
 Matrix: Soil
 Percent Solids: 96%

Date Collected: 08/31/17 08:05
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5340		mg/kg	8.16	2.20	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
Antimony, Total	0.416	J	mg/kg	4.08	0.310	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
Arsenic, Total	ND		mg/kg	0.816	0.170	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
Barium, Total	26.5		mg/kg	0.816	0.142	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
Beryllium, Total	0.196	J	mg/kg	0.408	0.027	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
Cadmium, Total	ND		mg/kg	0.816	0.080	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
Calcium, Total	43700		mg/kg	8.16	2.86	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
Chromium, Total	11.0		mg/kg	0.816	0.078	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
Cobalt, Total	4.33		mg/kg	1.63	0.136	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
Copper, Total	12.7		mg/kg	0.816	0.211	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
Iron, Total	8590		mg/kg	4.08	0.737	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
Lead, Total	2.83	J	mg/kg	4.08	0.219	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
Magnesium, Total	26000		mg/kg	8.16	1.26	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
Manganese, Total	157		mg/kg	0.816	0.130	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
Mercury, Total	ND		mg/kg	0.07	0.01	1	09/01/17 08:30	09/02/17 13:29	EPA 7471B	1,7471B	BV
Nickel, Total	9.55		mg/kg	2.04	0.198	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
Potassium, Total	1160		mg/kg	204	11.8	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
Selenium, Total	ND		mg/kg	1.63	0.211	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
Silver, Total	ND		mg/kg	0.816	0.231	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
Sodium, Total	114	J	mg/kg	163	2.57	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
Thallium, Total	ND		mg/kg	1.63	0.257	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
Vanadium, Total	15.3		mg/kg	0.816	0.166	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
Zinc, Total	31.8		mg/kg	4.08	0.239	2	09/01/17 20:32	09/07/17 14:58	EPA 3050B	1,6010C	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	11		mg/kg	0.83	0.83	1		09/07/17 14:58	NA	107,-	



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04,08-10 Batch: WG1037670-1									
Mercury, Total	ND	mg/kg	0.08	0.02	1	09/01/17 08:30	09/02/17 12:43	1,7471B	BV

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
Total Metals - Mansfield Lab for sample(s): 01-04,08-10 Batch: WG1037974-1										
Aluminum, Total	ND	mg/kg	4.00	1.08	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM	
Antimony, Total	ND	mg/kg	2.00	0.152	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM	
Arsenic, Total	ND	mg/kg	0.400	0.083	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM	
Barium, Total	ND	mg/kg	0.400	0.070	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM	
Beryllium, Total	ND	mg/kg	0.200	0.013	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM	
Cadmium, Total	ND	mg/kg	0.400	0.039	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM	
Calcium, Total	1.74	J	mg/kg	4.00	1.40	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM
Chromium, Total	ND	mg/kg	0.400	0.038	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM	
Cobalt, Total	ND	mg/kg	0.800	0.066	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM	
Copper, Total	0.148	J	mg/kg	0.400	0.103	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM
Iron, Total	ND	mg/kg	2.00	0.361	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM	
Lead, Total	ND	mg/kg	2.00	0.107	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM	
Magnesium, Total	ND	mg/kg	4.00	0.616	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM	
Manganese, Total	ND	mg/kg	0.400	0.064	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM	
Nickel, Total	ND	mg/kg	1.00	0.097	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM	
Potassium, Total	ND	mg/kg	100	5.76	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM	
Selenium, Total	ND	mg/kg	0.800	0.103	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM	
Silver, Total	ND	mg/kg	0.400	0.113	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM	
Sodium, Total	ND	mg/kg	80.0	1.26	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM	
Thallium, Total	ND	mg/kg	0.800	0.126	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM	
Vanadium, Total	ND	mg/kg	0.400	0.081	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM	
Zinc, Total	ND	mg/kg	2.00	0.117	1	09/01/17 20:32	09/07/17 12:55	1,6010C	AM	



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-04,08-10 Batch: WG1038957-1									
Mercury, TCLP	ND	mg/l	0.0010	0.0003	1	09/06/17 14:02	09/07/17 17:49	1,7470A	MG

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 09/03/17 23:44

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-04,08-10 Batch: WG1039074-1									
Arsenic, TCLP	ND	mg/l	1.00	0.019	1	09/06/17 18:13	09/07/17 16:19	1,6010C	AM
Barium, TCLP	ND	mg/l	0.500	0.021	1	09/06/17 18:13	09/07/17 16:19	1,6010C	AM
Cadmium, TCLP	ND	mg/l	0.100	0.010	1	09/06/17 18:13	09/07/17 16:19	1,6010C	AM
Chromium, TCLP	ND	mg/l	0.200	0.021	1	09/06/17 18:13	09/07/17 16:19	1,6010C	AM
Lead, TCLP	ND	mg/l	0.500	0.027	1	09/06/17 18:13	09/07/17 16:19	1,6010C	AM
Selenium, TCLP	0.043 J	mg/l	0.500	0.035	1	09/06/17 18:13	09/07/17 16:19	1,6010C	AM
Silver, TCLP	ND	mg/l	0.100	0.028	1	09/06/17 18:13	09/07/17 16:19	1,6010C	AM

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 09/03/17 23:44



Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.

Project Number: 170488401

Lab Number: L1730852

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04,08-10 Batch: WG1037670-2 SRM Lot Number: D093-540								
Mercury, Total	98		-		72-128	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.

Project Number: 170488401

Lab Number: L1730852

Report Date: 09/11/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04,08-10 Batch: WG1037974-2 SRM Lot Number: D093-540					
Aluminum, Total	75	-	55-146	-	
Antimony, Total	140	-	2-204	-	
Arsenic, Total	96	-	70-130	-	
Barium, Total	95	-	83-117	-	
Beryllium, Total	93	-	83-117	-	
Cadmium, Total	95	-	83-117	-	
Calcium, Total	93	-	83-117	-	
Chromium, Total	98	-	80-120	-	
Cobalt, Total	94	-	84-116	-	
Copper, Total	100	-	82-118	-	
Iron, Total	95	-	47-153	-	
Lead, Total	92	-	82-117	-	
Magnesium, Total	85	-	77-124	-	
Manganese, Total	89	-	81-119	-	
Nickel, Total	94	-	83-117	-	
Potassium, Total	86	-	71-129	-	
Selenium, Total	97	-	78-122	-	
Silver, Total	102	-	76-124	-	
Sodium, Total	93	-	72-128	-	
Thallium, Total	99	-	79-121	-	
Vanadium, Total	96	-	78-122	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.

Project Number: 170488401

Lab Number: L1730852

Report Date: 09/11/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04,08-10 Batch: WG1037974-2 SRM Lot Number: D093-540					
Zinc, Total	93	-	83-117	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-04,08-10 Batch: WG1038957-2					
Mercury, TCLP	125	Q	80-120	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-04,08-10 Batch: WG1039074-2					
Arsenic, TCLP	103	-	75-125	-	20
Barium, TCLP	90	-	75-125	-	20
Cadmium, TCLP	97	-	75-125	-	20
Chromium, TCLP	95	-	75-125	-	20
Lead, TCLP	92	-	75-125	-	20
Selenium, TCLP	105	-	75-125	-	20
Silver, TCLP	95	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04,08-10 QC Batch ID: WG1037670-3 WG1037670-4 QC Sample: L1730815-01 Client ID: MS Sample												
Mercury, Total	0.23	0.133	0.38	112		0.37	104		80-120	3		20

Matrix Spike Analysis Batch Quality Control

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04,08-10 QC Batch ID: WG1037974-3 QC Sample: L1730847-02 Client ID: MS Sample									
Aluminum, Total	1420	164	1750	202	Q	-	75-125	-	20
Antimony, Total	0.734J	40.9	39.4	96		-	75-125	-	20
Arsenic, Total	3.13	9.82	12.8	98		-	75-125	-	20
Barium, Total	145.	164	277	81		-	75-125	-	20
Beryllium, Total	0.091J	4.09	4.01	98		-	75-125	-	20
Cadmium, Total	0.668J	4.17	4.53	108		-	75-125	-	20
Calcium, Total	5130	818	8330	391	Q	-	75-125	-	20
Chromium, Total	8.66	16.4	26.0	106		-	75-125	-	20
Cobalt, Total	2.28	40.9	39.3	90		-	75-125	-	20
Copper, Total	32.8	20.5	53.3	100		-	75-125	-	20
Iron, Total	6860	81.8	14800	9700	Q	-	75-125	-	20
Lead, Total	450.	41.7	527	184	Q	-	75-125	-	20
Magnesium, Total	808.	818	1560	92		-	75-125	-	20
Manganese, Total	147.	40.9	145	0	Q	-	75-125	-	20
Nickel, Total	4.31	40.9	43.0	94		-	75-125	-	20
Potassium, Total	218.	818	994	95		-	75-125	-	20
Selenium, Total	ND	9.82	9.59	98		-	75-125	-	20
Silver, Total	0.346J	24.6	25.8	105		-	75-125	-	20
Sodium, Total	70.3J	818	864	106		-	75-125	-	20
Thallium, Total	ND	9.82	9.02	92		-	75-125	-	20
Vanadium, Total	5.13	40.9	47.3	103		-	75-125	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04,08-10 QC Batch ID: WG1037974-3 QC Sample: L1730847-02 Client ID: MS Sample									
Zinc, Total	300.	40.9	368	166	Q	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-04,08-10 QC Batch ID: WG1038957-3 QC Sample: L1730729-01 Client ID: MS Sample									
Mercury, TCLP	ND	0.025	0.0286	114	-	-	80-120	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-04,08-10 QC Batch ID: WG1039074-3 QC Sample: L1730729-01 Client ID: MS Sample									
Arsenic, TCLP	0.036J	1.2	1.24	103	-	-	75-125	-	20
Barium, TCLP	1.24	20	19.3	90	-	-	75-125	-	20
Cadmium, TCLP	ND	0.51	0.493	97	-	-	75-125	-	20
Chromium, TCLP	ND	2	2.04	102	-	-	75-125	-	20
Lead, TCLP	ND	5.1	4.68	92	-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.25	104	-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.460	92	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.

Project Number: 170488401

Lab Number: L1730852

Report Date: 09/11/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04,08-10 QC Batch ID: WG1037974-4 QC Sample: L1730847-02 Client ID: DUP Sample						
Aluminum, Total	1420	1880	mg/kg	28	Q	20
Antimony, Total	0.734J	1.23J	mg/kg	NC		20
Arsenic, Total	3.13	3.48	mg/kg	11		20
Barium, Total	145.	134	mg/kg	8		20
Beryllium, Total	0.091J	0.102J	mg/kg	NC		20
Cadmium, Total	0.668J	0.735J	mg/kg	NC		20
Calcium, Total	5130	12700	mg/kg	85	Q	20
Chromium, Total	8.66	10.1	mg/kg	15		20
Cobalt, Total	2.28	1.58J	mg/kg	NC		20
Copper, Total	32.8	26.3	mg/kg	22	Q	20
Iron, Total	6860	10700	mg/kg	44	Q	20
Lead, Total	450.	384	mg/kg	16		20
Magnesium, Total	808.	1590	mg/kg	65	Q	20
Manganese, Total	147.	93.4	mg/kg	45	Q	20
Nickel, Total	4.31	4.68	mg/kg	8		20
Potassium, Total	218.	253	mg/kg	15		20
Selenium, Total	ND	0.325J	mg/kg	NC		20
Silver, Total	0.346J	0.274J	mg/kg	NC		20
Sodium, Total	70.3J	100J	mg/kg	NC		20

Lab Duplicate Analysis Batch Quality Control

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04,08-10 QC Batch ID: WG1037974-4 QC Sample: L1730847-02 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	5.13	5.95	mg/kg	15	20
Zinc, Total	300.	336	mg/kg	11	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-04,08-10 QC Batch ID: WG1038957-4 QC Sample: L1730729-01 Client ID: DUP Sample					
Mercury, TCLP	ND	0.0007J	mg/l	NC	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-04,08-10 QC Batch ID: WG1039074-4 QC Sample: L1730729-01 Client ID: DUP Sample					
Arsenic, TCLP	0.036J	0.052J	mg/l	NC	20
Barium, TCLP	1.24	1.26	mg/l	2	20
Cadmium, TCLP	ND	ND	mg/l	NC	20
Chromium, TCLP	ND	ND	mg/l	NC	20
Lead, TCLP	ND	ND	mg/l	NC	20
Selenium, TCLP	ND	ND	mg/l	NC	20
Silver, TCLP	ND	ND	mg/l	NC	20



INORGANICS & MISCELLANEOUS

Project Name: 414 GERARD AVE.

Project Number: 170488401

Lab Number: L1730852

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-01
 Client ID: WC01A_COMP_0-6
 Sample Location: BRONX, NEW YORK
 Matrix: Soil

Date Collected: 08/31/17 07:56
 Date Received: 08/31/17
 Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
 Description of Material: Non-Metallic - Damp Soil
 Particle Size: Medium
 Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	09/06/17 16:29	1,1030	JG



Project Name: 414 GERARD AVE.**Project Number:** 170488401**Lab Number:** L1730852**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730852-02
 Client ID: WC01B_COMP_6-12
 Sample Location: BRONX, NEW YORK
 Matrix: Soil

Date Collected: 08/31/17 07:46
 Date Received: 08/31/17
 Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
 Description of Material: Non-Metallic - Damp Sand
 Particle Size: Medium
 Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	09/06/17 14:38	1,1030	JG



Project Name: 414 GERARD AVE.

Project Number: 170488401

Lab Number: L1730852

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-03
 Client ID: WC01N_COMP_12-22
 Sample Location: BRONX, NEW YORK
 Matrix: Soil

Date Collected: 08/31/17 07:35
 Date Received: 08/31/17
 Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
 Description of Material: Non-Metallic - Damp Sand
 Particle Size: Medium
 Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	09/06/17 14:38	1,1030	JG



Project Name: 414 GERARD AVE.

Project Number: 170488401

Lab Number: L1730852

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-04
 Client ID: WCDUP01_COMP_083117
 Sample Location: BRONX, NEW YORK
 Matrix: Soil

Date Collected: 08/31/17 00:00
 Date Received: 08/31/17
 Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
 Description of Material: Non-Metallic - Damp Sand
 Particle Size: Medium
 Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	09/06/17 14:38	1,1030	JG



Project Name: 414 GERARD AVE.

Project Number: 170488401

Lab Number: L1730852

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-08
 Client ID: WC02A_COMP_0-6
 Sample Location: BRONX, NEW YORK
 Matrix: Soil

Date Collected: 08/31/17 08:26
 Date Received: 08/31/17
 Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
 Description of Material: Non-Metallic - Dry Sand
 Particle Size: Medium
 Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	09/06/17 14:38	1,1030	JG



Project Name: 414 GERARD AVE.**Project Number:** 170488401**Lab Number:** L1730852**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730852-09
 Client ID: WC02B_COMP_6-12
 Sample Location: BRONX, NEW YORK
 Matrix: Soil

Date Collected: 08/31/17 08:16
 Date Received: 08/31/17
 Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
 Description of Material: Non-Metallic - Dry Sand
 Particle Size: Medium
 Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	09/06/17 14:38	1,1030	JG



Project Name: 414 GERARD AVE.**Project Number:** 170488401**Lab Number:** L1730852**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730852-10
 Client ID: WC02N_COMP_12-22
 Sample Location: BRONX, NEW YORK
 Matrix: Soil

Date Collected: 08/31/17 08:05
 Date Received: 08/31/17
 Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
 Description of Material: Non-Metallic - Dry Sand
 Particle Size: Medium
 Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	09/06/17 14:38	1,1030	JG



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-01
Client ID: WC01A_COMP_0-6
Sample Location: BRONX, NEW YORK
Matrix: Soil

Date Collected: 08/31/17 07:56
Date Received: 08/31/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.4		%	0.100	NA	1	-	09/01/17 09:29	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	09/01/17 21:15	09/05/17 10:59	1,9010C/9012B	LH
pH (H)	10.7		SU	-	NA	1	-	09/01/17 07:10	1,9045D	VB
Chromium, Hexavalent	ND		mg/kg	0.84	0.17	1	09/04/17 16:30	09/06/17 02:52	1,7196A	JD
Cyanide, Reactive	ND		mg/kg	10	10.	1	09/05/17 03:30	09/05/17 05:21	1,7.3	JD
Sulfide, Reactive	ND		mg/kg	10	10.	1	09/05/17 03:30	09/05/17 05:34	1,7.3	JD



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-02
Client ID: WC01B_COMP_6-12
Sample Location: BRONX, NEW YORK
Matrix: Soil

Date Collected: 08/31/17 07:46
Date Received: 08/31/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.2		%	0.100	NA	1	-	09/01/17 09:29	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	09/01/17 21:15	09/05/17 11:00	1,9010C/9012B	LH
pH (H)	7.7		SU	-	NA	1	-	09/01/17 07:10	1,9045D	VB
Chromium, Hexavalent	ND		mg/kg	0.83	0.17	1	09/04/17 16:30	09/06/17 02:52	1,7196A	JD
Cyanide, Reactive	ND		mg/kg	10	10.	1	09/05/17 03:30	09/05/17 05:21	1,7.3	JD
Sulfide, Reactive	ND		mg/kg	10	10.	1	09/05/17 03:30	09/05/17 05:34	1,7.3	JD



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-03
Client ID: WC01N_COMP_12-22
Sample Location: BRONX, NEW YORK
Matrix: Soil

Date Collected: 08/31/17 07:35
Date Received: 08/31/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.0		%	0.100	NA	1	-	09/01/17 09:29	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	09/01/17 21:15	09/05/17 11:01	1,9010C/9012B	LH
pH (H)	8.5		SU	-	NA	1	-	09/01/17 07:10	1,9045D	VB
Chromium, Hexavalent	ND		mg/kg	0.86	0.17	1	09/04/17 16:30	09/06/17 02:53	1,7196A	JD
Cyanide, Reactive	ND		mg/kg	10	10.	1	09/05/17 03:30	09/05/17 05:21	1,7.3	JD
Sulfide, Reactive	ND		mg/kg	10	10.	1	09/05/17 03:30	09/05/17 05:34	1,7.3	JD



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-04
Client ID: WCDUP01_COMP_083117
Sample Location: BRONX, NEW YORK
Matrix: Soil

Date Collected: 08/31/17 00:00
Date Received: 08/31/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.2		%	0.100	NA	1	-	09/01/17 09:29	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	09/01/17 21:29	09/05/17 11:04	1,9010C/9012B	LH
pH (H)	8.3		SU	-	NA	1	-	09/01/17 07:10	1,9045D	VB
Chromium, Hexavalent	ND		mg/kg	0.85	0.17	1	09/04/17 16:30	09/06/17 02:53	1,7196A	JD
Cyanide, Reactive	ND		mg/kg	10	10.	1	09/05/17 03:30	09/05/17 05:21	1,7.3	JD
Sulfide, Reactive	ND		mg/kg	10	10.	1	09/05/17 03:30	09/05/17 05:34	1,7.3	JD



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-05

Date Collected: 08/31/17 07:30

Client ID: WCB6_20-22

Date Received: 08/31/17

Sample Location: BRONX, NEW YORK

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.0		%	0.100	NA	1	-	09/01/17 09:29	121,2540G	RI



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-06

Date Collected: 08/31/17 07:40

Client ID: WCB5_10-12

Date Received: 08/31/17

Sample Location: BRONX, NEW YORK

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99.0		%	0.100	NA	1	-	09/01/17 09:29	121,2540G	RI



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-07
Client ID: WCB4_5-6
Sample Location: BRONX, NEW YORK
Matrix: Soil

Date Collected: 08/31/17 07:50
Date Received: 08/31/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98.1		%	0.100	NA	1	-	09/01/17 09:29	121,2540G	RI



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-08
Client ID: WC02A_COMP_0-6
Sample Location: BRONX, NEW YORK
Matrix: Soil

Date Collected: 08/31/17 08:26
Date Received: 08/31/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99.0		%	0.100	NA	1	-	09/01/17 09:29	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.99	0.21	1	09/01/17 21:29	09/05/17 11:05	1,9010C/9012B	LH
pH (H)	8.2		SU	-	NA	1	-	09/01/17 07:10	1,9045D	VB
Chromium, Hexavalent	ND		mg/kg	0.81	0.16	1	09/04/17 16:30	09/06/17 02:54	1,7196A	JD
Cyanide, Reactive	ND		mg/kg	10	10.	1	09/05/17 03:30	09/05/17 05:22	1,7.3	JD
Sulfide, Reactive	ND		mg/kg	10	10.	1	09/05/17 03:30	09/05/17 05:35	1,7.3	JD



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-09
Client ID: WC02B_COMP_6-12
Sample Location: BRONX, NEW YORK
Matrix: Soil

Date Collected: 08/31/17 08:16
Date Received: 08/31/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.2		%	0.100	NA	1	-	09/01/17 09:29	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	09/02/17 13:53	09/05/17 10:14	1,9010C/9012B	LH
pH (H)	8.4		SU	-	NA	1	-	09/01/17 07:10	1,9045D	VB
Chromium, Hexavalent	ND		mg/kg	1.0	0.20	1	09/04/17 16:30	09/06/17 02:54	1,7196A	JD
Cyanide, Reactive	ND		mg/kg	10	10.	1	09/05/17 03:30	09/05/17 05:22	1,7.3	JD
Sulfide, Reactive	ND		mg/kg	10	10.	1	09/05/17 03:30	09/05/17 05:35	1,7.3	JD



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-10
Client ID: WC02N_COMP_12-22
Sample Location: BRONX, NEW YORK
Matrix: Soil

Date Collected: 08/31/17 08:05
Date Received: 08/31/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.0		%	0.100	NA	1	-	09/01/17 09:29	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.99	0.21	1	09/02/17 13:53	09/05/17 10:15	1,9010C/9012B	LH
pH (H)	8.6		SU	-	NA	1	-	09/01/17 07:10	1,9045D	VB
Chromium, Hexavalent	ND		mg/kg	0.83	0.17	1	09/04/17 16:30	09/06/17 02:55	1,7196A	JD
Cyanide, Reactive	ND		mg/kg	10	10.	1	09/05/17 19:15	09/05/17 20:54	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	10.	1	09/05/17 19:15	09/05/17 20:47	1,7.3	TL



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-11
Client ID: WCB1_20-22
Sample Location: BRONX, NEW YORK
Matrix: Soil

Date Collected: 08/31/17 08:00
Date Received: 08/31/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.0		%	0.100	NA	1	-	09/01/17 09:29	121,2540G	RI



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-12

Date Collected: 08/31/17 08:10

Client ID: WCB2_8-9

Date Received: 08/31/17

Sample Location: BRONX, NEW YORK

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98.8		%	0.100	NA	1	-	09/01/17 09:29	121,2540G	RI



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-13

Date Collected: 08/31/17 08:20

Client ID: WCB3_2-3

Date Received: 08/31/17

Sample Location: BRONX, NEW YORK

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98.7		%	0.100	NA	1	-	09/01/17 09:29	121,2540G	RI



Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730852-34
 Client ID: WCDUP01_GRAB_083117
 Sample Location: BRONX, NEW YORK
 Matrix: Soil

Date Collected: 08/31/17 00:00
 Date Received: 08/31/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99.0		%	0.100	NA	1	-	09/01/17 09:29	121,2540G	RI



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1037954-1										
Cyanide, Total	ND		mg/kg	1.0	0.21	1	09/01/17 21:15	09/05/17 10:42	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 04,08 Batch: WG1037957-1										
Cyanide, Total	ND		mg/kg	1.0	0.21	1	09/01/17 21:15	09/05/17 10:43	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 09-10 Batch: WG1038138-1										
Cyanide, Total	ND		mg/kg	1.0	0.21	1	09/02/17 13:53	09/05/17 10:04	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01-04,08-10 Batch: WG1038361-1										
Chromium, Hexavalent	ND		mg/kg	0.80	0.16	1	09/04/17 16:30	09/06/17 02:43	1,7196A	JD
General Chemistry - Westborough Lab for sample(s): 01-04,08-09 Batch: WG1038399-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	09/05/17 03:30	09/05/17 05:27	1,7.3	JD
General Chemistry - Westborough Lab for sample(s): 01-04,08-09 Batch: WG1038402-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	09/05/17 03:30	09/05/17 05:17	1,7.3	JD
General Chemistry - Westborough Lab for sample(s): 10 Batch: WG1038652-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	09/05/17 19:15	09/05/17 20:46	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 10 Batch: WG1038658-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	09/05/17 19:15	09/05/17 20:53	1,7.3	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.

Project Number: 170488401

Lab Number: L1730852

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04,08-10 Batch: WG1037725-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1037954-2 WG1037954-3								
Cyanide, Total	123	Q	66	Q	80-120	57	Q	35
General Chemistry - Westborough Lab Associated sample(s): 04,08 Batch: WG1037957-2 WG1037957-3								
Cyanide, Total	123	Q	66	Q	80-120	55	Q	35
General Chemistry - Westborough Lab Associated sample(s): 09-10 Batch: WG1038138-2 WG1038138-3								
Cyanide, Total	110		91		80-120	12		35
General Chemistry - Westborough Lab Associated sample(s): 01-04,08-10 Batch: WG1038361-2								
Chromium, Hexavalent	88		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04,08-09 Batch: WG1038399-2								
Sulfide, Reactive	96		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-04,08-09 Batch: WG1038402-2								
Cyanide, Reactive	94		-		30-125	-		40



Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.

Project Number: 170488401

Lab Number: L1730852

Report Date: 09/11/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 10 Batch: WG1038652-2					
Sulfide, Reactive	108	-	60-125	-	40
General Chemistry - Westborough Lab Associated sample(s): 10 Batch: WG1038658-2					
Cyanide, Reactive	107	-	30-125	-	40

Matrix Spike Analysis Batch Quality Control

Project Name: 414 GERARD AVE.

Lab Number: L1730852

Project Number: 170488401

Report Date: 09/11/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1037954-4 WG1037954-5 QC Sample: L1730771-01 Client ID: MS Sample												
Cyanide, Total	0.56J	18	17	90		18	98		75-125	6		35
General Chemistry - Westborough Lab Associated sample(s): 04,08 QC Batch ID: WG1037957-4 WG1037957-5 QC Sample: L1730886-01 Client ID: MS Sample												
Cyanide, Total	ND	11	10	92		10	94		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 09-10 QC Batch ID: WG1038138-4 WG1038138-5 QC Sample: L1731029-01 Client ID: MS Sample												
Cyanide, Total	ND	10	10	96		9.2	86		75-125	8		35
General Chemistry - Westborough Lab Associated sample(s): 01-04,08-10 QC Batch ID: WG1038361-9 WG1038361-10 QC Sample: L1730815-01 Client ID: MS Sample												
Chromium, Hexavalent	ND	847	910	110		810	110		75-125	12		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13,34 QC Batch ID: WG1037723-1 QC Sample: L1730825-02 Client ID: DUP Sample						
Solids, Total	78.1	79.5	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 01-04,08-10 QC Batch ID: WG1037725-2 QC Sample: L1730852-01 Client ID: WC01A_COMP_0-6						
pH (H)	10.7	10.8	SU	1		5
General Chemistry - Westborough Lab Associated sample(s): 01-04,08-10 QC Batch ID: WG1038361-6 QC Sample: L1730815-01 Client ID: DUP Sample						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-04,08-09 QC Batch ID: WG1038399-3 QC Sample: L1730718-04 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01-04,08-09 QC Batch ID: WG1038402-3 QC Sample: L1730718-04 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 10 QC Batch ID: WG1038652-3 QC Sample: L1731084-01 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 10 QC Batch ID: WG1038658-3 QC Sample: L1731084-01 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40

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Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1730852-01A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1730852-01B	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1730852-01C	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1730852-01D	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1730852-01X	Plastic 120ml HNO3 preserved Extracts	B	NA		4.1	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1730852-01X9	Tumble Vessel	B	NA		4.1	Y	Absent		-
L1730852-02A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1730852-02B	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days



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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1730852-02C	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1730852-02D	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1730852-02X	Plastic 120ml HNO3 preserved Extracts	B	NA		4.1	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1730852-02X9	Tumble Vessel	B	NA		4.1	Y	Absent		-
L1730852-03A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1730852-03B	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1730852-03C	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1730852-03D	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1730852-03X	Plastic 120ml HNO3 preserved Extracts	B	NA		4.1	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1730852-03X9	Tumble Vessel	B	NA		4.1	Y	Absent		-
L1730852-04A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)



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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1730852-04B	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1730852-04C	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1730852-04D	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1730852-04X	Plastic 120ml HNO3 preserved Extracts	B	NA		4.1	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1730852-04X9	Tumble Vessel	B	NA		4.1	Y	Absent		-
L1730852-05A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L1730852-05B	Vial water preserved	B	NA		4.1	Y	Absent	01-SEP-17 03:52	NYTCL-8260HLW(14)
L1730852-05C	Vial water preserved	B	NA		4.1	Y	Absent	01-SEP-17 03:52	NYTCL-8260HLW(14)
L1730852-05D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L1730852-05E	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		NJEPH-TPH-CAT1(14)
L1730852-06A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L1730852-06B	Vial water preserved	B	NA		4.1	Y	Absent	01-SEP-17 03:52	NYTCL-8260HLW(14)
L1730852-06C	Vial water preserved	B	NA		4.1	Y	Absent	01-SEP-17 03:52	NYTCL-8260HLW(14)
L1730852-06D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L1730852-06E	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		NJEPH-TPH-CAT1(14)
L1730852-07A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L1730852-07B	Vial water preserved	B	NA		4.1	Y	Absent	01-SEP-17 03:52	NYTCL-8260HLW(14)
L1730852-07C	Vial water preserved	B	NA		4.1	Y	Absent	01-SEP-17 03:52	NYTCL-8260HLW(14)
L1730852-07D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L1730852-07E	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		NJEPH-TPH-CAT1(14)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1730852-08A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1730852-08B	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1730852-08C	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1730852-08D	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1730852-08X	Plastic 120ml HNO3 preserved Extracts	B	NA		4.1	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1730852-08X9	Tumble Vessel	B	NA		4.1	Y	Absent		-
L1730852-09A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1730852-09B	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1730852-09C	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1730852-09D	Glass 500ml/16oz unpreserved	A	NA		3.2	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days



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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1730852-09X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.2	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1730852-09X9	Tumble Vessel	A	NA		3.2	Y	Absent		-
L1730852-10A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1730852-10B	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1730852-10C	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1730852-10D	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1730852-10X	Plastic 120ml HNO3 preserved Extracts	B	NA		4.1	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1730852-10X9	Tumble Vessel	B	NA		4.1	Y	Absent		-
L1730852-11A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L1730852-11B	Vial water preserved	B	NA		4.1	Y	Absent	01-SEP-17 03:52	NYTCL-8260HLW(14)
L1730852-11C	Vial water preserved	B	NA		4.1	Y	Absent	01-SEP-17 03:52	NYTCL-8260HLW(14)
L1730852-11D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L1730852-11E	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		NJEPH-TPH-CAT1(14)
L1730852-12A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L1730852-12B	Vial water preserved	B	NA		4.1	Y	Absent	01-SEP-17 03:52	NYTCL-8260HLW(14)
L1730852-12C	Vial water preserved	B	NA		4.1	Y	Absent	01-SEP-17 03:52	NYTCL-8260HLW(14)
L1730852-12D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L1730852-12E	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		NJEPH-TPH-CAT1(14)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1730852-13A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L1730852-13B	Vial water preserved	B	NA		4.1	Y	Absent	01-SEP-17 03:52	NYTCL-8260HLW(14)
L1730852-13C	Vial water preserved	B	NA		4.1	Y	Absent	01-SEP-17 03:52	NYTCL-8260HLW(14)
L1730852-13D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L1730852-13E	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		NJEPH-TPH-CAT1(14)
L1730852-14A	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1730852-15A	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1730852-16A	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1730852-17A	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1730852-18A	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1730852-19A	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1730852-20A	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1730852-21A	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1730852-22A	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1730852-23A	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1730852-24A	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1730852-25A	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1730852-25B	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		-
L1730852-26A	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1730852-27A	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1730852-28A	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1730852-29A	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1730852-30A	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180),HOLD()
L1730852-31A	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1730852-32A	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1730852-33A	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1730852-34A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L1730852-34B	Vial water preserved	B	NA		4.1	Y	Absent	01-SEP-17 03:52	NYTCL-8260HLW(14)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1730852-34C	Vial water preserved	B	NA		4.1	Y	Absent	01-SEP-17 03:52	NYTCL-8260HLW(14)
L1730852-34D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L1730852-34E	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		NJEPH-TPH-CAT1(14)
L1730852-35A	Vial HCl preserved	B	NA		4.1	Y	Absent		NYTCL-8260(14)
L1730852-35B	Vial HCl preserved	B	NA		4.1	Y	Absent		NYTCL-8260(14)

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GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 414 GERARD AVE.
Project Number: 170488401

Lab Number: L1730852
Report Date: 09/11/17

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 103 Analysis of Extractable Petroleum Hydrocarbon Compounds (EPH) in Aqueous and Soil/Sediment/Sludge Matrices. New Jersey Department of Environmental Protection, Site Remediation Program, (Version 1.1), Document # NJDEP EPH 10/08, Revision 3, August 2010.
- 107 Alpha Analytical - In-house calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: NPW and SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

EPA 9012B: NPW: Total Cyanide

EPA 9050A: NPW: Specific Conductance

SM3500: NPW: Ferrous Iron

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

SM 2540D: TSS

EPA 3005A NPW

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water

EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1 Hg.**

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.


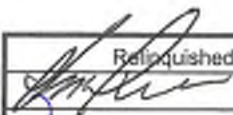
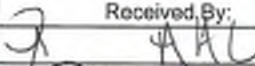
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.


SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.




414 Gerard Ave - WC

 ALPHA CHAIN OF CUSTODY	NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 6 Albany, NY 12266: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 of 4	Date Rec'd in Lab 9/3/17	ALPHA Job # L1730852																																																																																																																																																																							
			Project Information Project Name: 414 Gerard Ave Project Location: Bronx, New York Project # 17048840	Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other	Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #																																																																																																																																																																							
Client Information Client: LANGAN Address: 320 West 31st Street New York, NY 10001 Phone: 212 479 5400 Fax: 212 479 5444 Email: mrogers@langan.com	(Use Project name as Project #) <input type="checkbox"/> Project Manager: Michele Rogers ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:	Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																																																																																																																																																									
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Please specify Metals or TAL.		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">VOCS/EPH</th> <th rowspan="2">SVOCs/PCBS</th> <th rowspan="2">PEST/HEPB</th> <th rowspan="2">Metals, TCP</th> <th rowspan="2">Trace metals</th> <th rowspan="2">Hex/Trichloro</th> <th rowspan="2">RCRA Characteristic</th> <th rowspan="2">Total Chloride</th> <th rowspan="2">Sample Specific Comments</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>30852.01</td> <td>WCO1A-COMP-0-6</td> <td>8/31/17</td> <td>0756</td> <td>S</td> <td>VZ</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>02</td> <td>WCO1B-COMP-6-12</td> <td></td> <td>0746</td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>03</td> <td>WCO1N-COMP-12-22</td> <td></td> <td>0735</td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>04</td> <td>WCDUP01-COMP-083117</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>05</td> <td>WCB5-20-22</td> <td></td> <td>0730</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>06</td> <td>WCB5-10-12</td> <td></td> <td>0740</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>07</td> <td>WCB4-5-6</td> <td></td> <td>0750</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>08</td> <td>WCO2A-COMP-0-6</td> <td></td> <td>0826</td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>09</td> <td>WCO2B-COMP-6-12</td> <td></td> <td>0816</td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>10</td> <td>WCO2N-COMP-12-22</td> <td></td> <td>0806</td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> </tbody> </table>		ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	VOCS/EPH	SVOCs/PCBS	PEST/HEPB	Metals, TCP	Trace metals	Hex/Trichloro	RCRA Characteristic	Total Chloride	Sample Specific Comments	Date	Time	30852.01	WCO1A-COMP-0-6	8/31/17	0756	S	VZ		X	X	X	X	X	X	X		02	WCO1B-COMP-6-12		0746				X	X	X	X	X	X	X		03	WCO1N-COMP-12-22		0735				X	X	X	X	X	X	X		04	WCDUP01-COMP-083117		-				X	X	X	X	X	X	X		05	WCB5-20-22		0730			X									06	WCB5-10-12		0740			X									07	WCB4-5-6		0750			X									08	WCO2A-COMP-0-6		0826				X	X	X	X	X	X	X		09	WCO2B-COMP-6-12		0816				X	X	X	X	X	X	X		10	WCO2N-COMP-12-22		0806				X	X	X	X	X	X	X		Container Type: N/A A A A A A A A A Preservative: F/A A A A A A A A	
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Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)																																																																																																																																																																						
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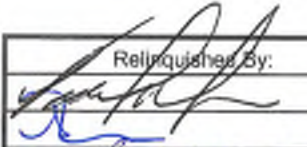


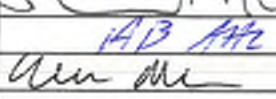

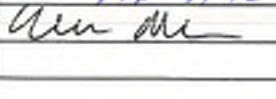
414 Gerard Ave - WC

 ALPHA <small>WESTBOROUGH, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193</small>	NEW YORK CHAIN OF CUSTODY <small>Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288</small>	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 2 of 4	Date Rec'd in Lab 8/31/17	ALPHA Job # 1730852						
		Project Information Project Name: 414 Gerard Avenue Project Location: Bronx, New York Project # 170488401 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #					
Client Information Client: LANGAN Address: 360 West 31st Street New York, NY 10001 Phone: 212 479 5400 Fax: 212 479 5444 Email: mrogers@langan.com		Project Manager: Michale Rogers ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:					
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		Date	Time								
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	WCB2-8-9		0810			X					
	WCB3-2-3		0820			X					
	WCB6-11-12		0741				X				
	WCB6-8-9		0742				X				
	WCB4-6-7		0743				X				
	WCB4-16-11		0744				X				
	WCB5-7-8		0745				X				
	WCB4-5-6		0751				X				
	WCB5-2-3		0752				X				
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type AV A Preservative AF A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)			
Requisitioned By: [Signature]		Date/Time: 8/31/17 15:37		Received By: [Signature]		Date/Time: 8/31/17 15:37					
Requisitioned By: [Signature]		Date/Time: 8/31/17 11:39		Received By: [Signature]		Date/Time: 8/31/17 11:39					
Requisitioned By: [Signature]		Date/Time: 8/31/17 2:00		Received By: [Signature]		Date/Time: 8/31/17 2:20					

414 Gerard-WC

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9133	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page	Date Rec'd in Lab	ALPHA Job #					
		3 of 4	8/13/17	L173 0852					
Project Information Project Name: 414 Gerard Avenue Project Location: Bronx, New York Project # 170488401 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input type="checkbox"/> Same as Client Info PO #					
Client Information Client: LANGAN Address: 360 W 81st Street New York, NY 10001 Phone: 212 479 5400 Fax: 212 479 5444 Email: mrogers@langan.com		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:					
Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		ANALYSIS							
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments:		Twp Metals		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)					
Please specify Metals or TAL.				Sample Specific Comments					
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection	Sample Matrix	Sampler's Initials					
		Date Time							
30452-21	WCB5-4-5	8/31/17	0753	S	VZ	X			
22	WCB6-1-2		0754			X			
23	WCB6-5-6		0755			X			
24	WCB1-11-12		0811			X			
25	WCB2-10-11		0812			X			
26	WCB2-7-8		0813			X			
27	WCB3-8-9		0814			X			
28	WCB3-6-7		0815			X			
29	WCB1-5-6		0821			X			
30	WCB1-1-2		0822			X			
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type: A Preservative: A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
Relinquished By: 		Date/Time: 8/31/17 1537		Received By: 		Date/Time: 8/31/17 1537			
Project 13 AAL		8/31/17 1639		MRO AAL		8/31/17 1934			
		8/31/17 2200		Alan W		8/31/17 2230			

414 Gerard Ave - WE

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 4 of 4	Date Rec'd in Lab 8/31/17	ALPHA Job # 4730852																	
		Project Information Project Name: 414 Gerard Ave Project Location: Bronx, New York Project # 170488401 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #																
Client Information Client: LANGRAN Address: 310 West 34th St, New York, NY 10001 Phone: 212 479 5100 Fax: 212 479 6444 Email: mrosers@langran.com		Project Manager: Michele Rogers ALPHAQuote #:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge																		
Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)																		
These samples have been previously analyzed by Alpha <input type="checkbox"/>		ANALYSIS		Sample Specific Comments																		
Other project specific requirements/comments:		Please specify Metals or TAL.		T O I L B O T T L E S																		
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	TAL Metals	VOCs / EPH	VOCs														
		Date	Time																			
30452-13	WCB2-5-6	8/31/17	0823	S	VZ	X														HOLD ANALYSIS	1	
32	WCB2-4-5		0824			X															HOLD ANALYSIS	1
33	WCB3-2-3		0825			X															HOLD ANALYSIS	1
34	WCDUP01-GRAB-083117		-				X															5
35	WCTB01-08317		-					X														
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₅ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type		Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)												
Relinquished By: 		Date/Time: 8/31/17 1537		Received By: 		Date/Time: 8/31/17 1537																
Relinquished By: 		Date/Time: 8/31/17 1634		Received By: 		Date/Time: 8/31/17 1930																
Relinquished By: 		Date/Time: 8/31/17 2200		Received By: 		Date/Time: 8/31/17 2230																



ANALYTICAL REPORT

Lab Number:	L1731032
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Michele Rogers
Phone:	(212) 479-5429
Project Name:	414 GERARD AVE
Project Number:	170488401
Report Date:	09/13/17

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1731032-01	WC03A_COMP_0-6	SOIL	BRONX, NY	09/01/17 13:31	09/01/17
L1731032-02	WC03B_COMP_6-12	SOIL	BRONX, NY	09/01/17 13:21	09/01/17
L1731032-03	WC03N_COMP_12-28	SOIL	BRONX, NY	09/01/17 13:15	09/01/17
L1731032-04	WCB9_0-2	SOIL	BRONX, NY	09/01/17 13:35	09/01/17
L1731032-05	WCB11_10-12	SOIL	BRONX, NY	09/01/17 13:25	09/01/17
L1731032-06	WCB12_26-28	SOIL	BRONX, NY	09/01/17 13:10	09/01/17
L1731032-07	WC04A_COMP_0-5	SOIL	BRONX, NY	09/01/17 13:41	09/01/17
L1731032-08	WC04B_COMP_5-10	SOIL	BRONX, NY	09/01/17 13:51	09/01/17
L1731032-09	WC04N_COMP_10-15	SOIL	BRONX, NY	09/01/17 14:01	09/01/17
L1731032-10	WCFB01_090117	WATER	BRONX, NY	09/01/17 14:15	09/01/17
L1731032-11	WCB8_0-1	SOIL	BRONX, NY	09/01/17 13:36	09/01/17
L1731032-12	WCB8_3-4	SOIL	BRONX, NY	09/01/17 13:37	09/01/17
L1731032-13	WCB7_4-5	SOIL	BRONX, NY	09/01/17 13:38	09/01/17
L1731032-14	WCB7_3-4	SOIL	BRONX, NY	09/01/17 13:39	09/01/17
L1731032-15	WCB10_0-1	SOIL	BRONX, NY	09/01/17 13:40	09/01/17
L1731032-16	WCB10_9-10	SOIL	BRONX, NY	09/01/17 13:50	09/01/17
L1731032-17	WCB8_8-9	SOIL	BRONX, NY	09/01/17 13:49	09/01/17
L1731032-18	WCB7_6-7	SOIL	BRONX, NY	09/01/17 13:46	09/01/17
L1731032-19	WCB7_8-9	SOIL	BRONX, NY	09/01/17 13:47	09/01/17
L1731032-20	WCB8_9-10	SOIL	BRONX, NY	09/01/17 13:48	09/01/17
L1731032-21	WCB9_0-1	SOIL	BRONX, NY	09/01/17 13:26	09/01/17
L1731032-22	WCB9_3-4	SOIL	BRONX, NY	09/01/17 13:27	09/01/17
L1731032-23	WCB12_3-4	SOIL	BRONX, NY	09/01/17 13:28	09/01/17
L1731032-24	WCB12_5-6	SOIL	BRONX, NY	09/01/17 13:29	09/01/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1731032-25	WCB11_2-3	SOIL	BRONX, NY	09/01/17 13:30	09/01/17
L1731032-26	WCB12_11-12	SOIL	BRONX, NY	09/01/17 13:16	09/01/17
L1731032-27	WCB12_7-8	SOIL	BRONX, NY	09/01/17 13:17	09/01/17
L1731032-28	WCB9_6-7	SOIL	BRONX, NY	09/01/17 13:18	09/01/17
L1731032-29	WCB9_7-8	SOIL	BRONX, NY	09/01/17 13:19	09/01/17
L1731032-30	WCB11_7-8	SOIL	BRONX, NY	09/01/17 13:20	09/01/17
L1731032-31	WCTB02_090117	WATER	BRONX, NY	09/01/17 00:00	09/01/17
L1731032-32	WCB8_5-7	SOIL	BRONX, NY	09/01/17 13:55	09/01/17
L1731032-33	WCB8_13-15	SOIL	BRONX, NY	09/01/17 14:00	09/01/17
L1731032-34	WCB10_0-2	SOIL	BRONX, NY	09/01/17 13:45	09/01/17

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Case Narrative (continued)

Report Submission

September 13, 2017: This is a preliminary report.

The requested analyses were provided by the client.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L1731032-32, -33, -34: Samples identified as "WCB8_5-7", "WCB8_13-15", and "WCB10_0-2" were received but not listed on the Chain of Custody. At the client's request, these samples were analyzed for EPH and Volatile Organics.

Semivolatile Organics

The WG1038307-2 LCS recovery, associated with L1731032-09, is below the acceptance criteria for benzoic acid (7%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

The WG1040317-2/-3 LCS/LCSD recoveries, associated with L1731032-01 and -07, are below the acceptance criteria for benzoic acid (4%/2%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Total Metals

L1731032-01, -02, -03, -07, -08, and -09: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Cristin Walker

Title: Technical Director/Representative

Date: 09/13/17

ORGANICS

VOLATILES

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-04
Client ID: WCB9_0-2
Sample Location: BRONX, NY

Date Collected: 09/01/17 13:35
Date Received: 09/01/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/10/17 14:26
Analyst: PD
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	2.1	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.35	1
Chloroform	ND		ug/kg	1.9	0.47	1
Carbon tetrachloride	ND		ug/kg	1.3	0.44	1
1,2-Dichloropropane	ND		ug/kg	4.5	0.29	1
Dibromochloromethane	ND		ug/kg	1.3	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.40	1
Tetrachloroethene	ND		ug/kg	1.3	0.39	1
Chlorobenzene	ND		ug/kg	1.3	0.45	1
Trichlorofluoromethane	ND		ug/kg	6.4	0.54	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.32	1
1,1,1-Trichloroethane	0.63	J	ug/kg	1.3	0.45	1
Bromodichloromethane	ND		ug/kg	1.3	0.40	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.30	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	0.27	1
1,1-Dichloropropene	ND		ug/kg	6.4	0.42	1
Bromoform	ND		ug/kg	5.1	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.38	1
Benzene	ND		ug/kg	1.3	0.25	1
Toluene	ND		ug/kg	1.9	0.25	1
Ethylbenzene	ND		ug/kg	1.3	0.22	1
Chloromethane	ND		ug/kg	6.4	0.56	1
Bromomethane	ND		ug/kg	2.6	0.43	1
Vinyl chloride	ND		ug/kg	2.6	0.40	1
Chloroethane	ND		ug/kg	2.6	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.48	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.31	1
Trichloroethene	5.1		ug/kg	1.3	0.39	1
1,2-Dichlorobenzene	ND		ug/kg	6.4	0.23	1



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-04

Date Collected: 09/01/17 13:35

Client ID: WCB9_0-2

Date Received: 09/01/17

Sample Location: BRONX, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.4	0.28	1
1,4-Dichlorobenzene	ND		ug/kg	6.4	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.20	1
p/m-Xylene	ND		ug/kg	2.6	0.45	1
o-Xylene	ND		ug/kg	2.6	0.43	1
Xylenes, Total	ND		ug/kg	2.6	0.43	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.44	1
Dibromomethane	ND		ug/kg	13	0.31	1
Styrene	ND		ug/kg	2.6	0.51	1
Dichlorodifluoromethane	ND		ug/kg	13	0.64	1
Acetone	ND		ug/kg	13	2.9	1
Carbon disulfide	ND		ug/kg	13	1.4	1
2-Butanone	ND		ug/kg	13	0.88	1
Vinyl acetate	ND		ug/kg	13	0.20	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.31	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.23	1
2-Hexanone	ND		ug/kg	13	0.85	1
Bromochloromethane	ND		ug/kg	6.4	0.46	1
2,2-Dichloropropane	ND		ug/kg	6.4	0.58	1
1,2-Dibromoethane	ND		ug/kg	5.1	0.26	1
1,3-Dichloropropane	ND		ug/kg	6.4	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.41	1
Bromobenzene	ND		ug/kg	6.4	0.28	1
n-Butylbenzene	ND		ug/kg	1.3	0.29	1
sec-Butylbenzene	ND		ug/kg	1.3	0.28	1
tert-Butylbenzene	ND		ug/kg	6.4	0.32	1
o-Chlorotoluene	ND		ug/kg	6.4	0.28	1
p-Chlorotoluene	ND		ug/kg	6.4	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.4	0.51	1
Hexachlorobutadiene	ND		ug/kg	6.4	0.45	1
Isopropylbenzene	ND		ug/kg	1.3	0.25	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.26	1
Naphthalene	0.18	J	ug/kg	6.4	0.18	1
Acrylonitrile	ND		ug/kg	13	0.66	1
Tert-Butyl Alcohol	ND		ug/kg	77	3.8	1
n-Propylbenzene	ND		ug/kg	1.3	0.28	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.4	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.4	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.4	0.21	1



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-04
Client ID: WCB9_0-2
Sample Location: BRONX, NY

Date Collected: 09/01/17 13:35
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.4	0.24	1
Methyl Acetate	ND		ug/kg	26	0.59	1
Acrolein	ND		ug/kg	32	10.	1
Cyclohexane	ND		ug/kg	26	0.56	1
1,4-Dioxane	ND		ug/kg	51	18.	1
Freon-113	ND		ug/kg	26	0.66	1
p-Diethylbenzene	ND		ug/kg	5.1	5.1	1
p-Ethyltoluene	ND		ug/kg	5.1	0.30	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.1	0.20	1
Ethyl ether	ND		ug/kg	6.4	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	0.50	1
Methyl cyclohexane	ND		ug/kg	5.1	0.31	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	103		70-130

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-05
 Client ID: WCB11_10-12
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:25
 Date Received: 09/01/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/09/17 14:56
 Analyst: JC
 Percent Solids: 98%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.5	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.23	1
Chloroform	ND		ug/kg	1.3	0.31	1
Carbon tetrachloride	ND		ug/kg	0.85	0.29	1
1,2-Dichloropropane	ND		ug/kg	3.0	0.19	1
Dibromochloromethane	ND		ug/kg	0.85	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.26	1
Tetrachloroethene	ND		ug/kg	0.85	0.26	1
Chlorobenzene	ND		ug/kg	0.85	0.30	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.35	1
1,2-Dichloroethane	ND		ug/kg	0.85	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	0.85	0.30	1
Bromodichloromethane	ND		ug/kg	0.85	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	0.85	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	0.85	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.85	0.18	1
1,1-Dichloropropene	ND		ug/kg	4.2	0.28	1
Bromoform	ND		ug/kg	3.4	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.85	0.25	1
Benzene	ND		ug/kg	0.85	0.16	1
Toluene	ND		ug/kg	1.3	0.16	1
Ethylbenzene	ND		ug/kg	0.85	0.14	1
Chloromethane	ND		ug/kg	4.2	0.37	1
Bromomethane	ND		ug/kg	1.7	0.29	1
Vinyl chloride	ND		ug/kg	1.7	0.27	1
Chloroethane	ND		ug/kg	1.7	0.27	1
1,1-Dichloroethene	ND		ug/kg	0.85	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.20	1
Trichloroethene	1.3		ug/kg	0.85	0.26	1
1,2-Dichlorobenzene	ND		ug/kg	4.2	0.15	1



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-05

Date Collected: 09/01/17 13:25

Client ID: WCB11_10-12

Date Received: 09/01/17

Sample Location: BRONX, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	4.2	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	4.2	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.13	1
p/m-Xylene	ND		ug/kg	1.7	0.30	1
o-Xylene	ND		ug/kg	1.7	0.29	1
Xylenes, Total	ND		ug/kg	1.7	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.85	0.29	1
Dibromomethane	ND		ug/kg	8.5	0.20	1
Styrene	ND		ug/kg	1.7	0.34	1
Dichlorodifluoromethane	ND		ug/kg	8.5	0.42	1
Acetone	ND		ug/kg	8.5	1.9	1
Carbon disulfide	ND		ug/kg	8.5	0.93	1
2-Butanone	ND		ug/kg	8.5	0.58	1
Vinyl acetate	ND		ug/kg	8.5	0.13	1
4-Methyl-2-pentanone	ND		ug/kg	8.5	0.21	1
1,2,3-Trichloropropane	ND		ug/kg	8.5	0.15	1
2-Hexanone	ND		ug/kg	8.5	0.56	1
Bromochloromethane	ND		ug/kg	4.2	0.30	1
2,2-Dichloropropane	ND		ug/kg	4.2	0.38	1
1,2-Dibromoethane	ND		ug/kg	3.4	0.17	1
1,3-Dichloropropane	ND		ug/kg	4.2	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.85	0.27	1
Bromobenzene	ND		ug/kg	4.2	0.18	1
n-Butylbenzene	ND		ug/kg	0.85	0.19	1
sec-Butylbenzene	ND		ug/kg	0.85	0.18	1
tert-Butylbenzene	ND		ug/kg	4.2	0.21	1
o-Chlorotoluene	ND		ug/kg	4.2	0.19	1
p-Chlorotoluene	ND		ug/kg	4.2	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	0.34	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.30	1
Isopropylbenzene	ND		ug/kg	0.85	0.16	1
p-Isopropyltoluene	ND		ug/kg	0.85	0.17	1
Naphthalene	ND		ug/kg	4.2	0.12	1
Acrylonitrile	ND		ug/kg	8.5	0.44	1
Tert-Butyl Alcohol	ND		ug/kg	51	2.5	1
n-Propylbenzene	ND		ug/kg	0.85	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.2	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.2	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.2	0.14	1



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-05
Client ID: WCB11_10-12
Sample Location: BRONX, NY

Date Collected: 09/01/17 13:25
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	4.2	0.16	1
Methyl Acetate	ND		ug/kg	17	0.39	1
Acrolein	ND		ug/kg	21	6.8	1
Cyclohexane	ND		ug/kg	17	0.37	1
1,4-Dioxane	ND		ug/kg	34	12.	1
Freon-113	ND		ug/kg	17	0.44	1
p-Diethylbenzene	ND		ug/kg	3.4	3.4	1
p-Ethyltoluene	ND		ug/kg	3.4	0.20	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.4	0.13	1
Ethyl ether	ND		ug/kg	4.2	0.22	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.2	0.33	1
Methyl cyclohexane	ND		ug/kg	3.4	0.20	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	111		70-130

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-06
 Client ID: WCB12_26-28
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:10
 Date Received: 09/01/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/09/17 15:22
 Analyst: JC
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.33	1
Chloroform	ND		ug/kg	1.8	0.45	1
Carbon tetrachloride	ND		ug/kg	1.2	0.42	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.37	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.1	0.51	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.42	1
Bromodichloromethane	ND		ug/kg	1.2	0.37	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.28	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.25	1
1,1-Dichloropropene	ND		ug/kg	6.1	0.40	1
Bromoform	ND		ug/kg	4.8	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.36	1
Benzene	ND		ug/kg	1.2	0.23	1
Toluene	ND		ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.21	1
Chloromethane	ND		ug/kg	6.1	0.53	1
Bromomethane	ND		ug/kg	2.4	0.41	1
Vinyl chloride	ND		ug/kg	2.4	0.38	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.45	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.29	1
Trichloroethene	1.3		ug/kg	1.2	0.37	1
1,2-Dichlorobenzene	ND		ug/kg	6.1	0.22	1



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-06

Date Collected: 09/01/17 13:10

Client ID: WCB12_26-28

Date Received: 09/01/17

Sample Location: BRONX, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.1	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	6.1	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.18	1
p/m-Xylene	ND		ug/kg	2.4	0.43	1
o-Xylene	ND		ug/kg	2.4	0.41	1
Xylenes, Total	ND		ug/kg	2.4	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.42	1
Dibromomethane	ND		ug/kg	12	0.29	1
Styrene	ND		ug/kg	2.4	0.49	1
Dichlorodifluoromethane	ND		ug/kg	12	0.61	1
Acetone	ND		ug/kg	12	2.8	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.84	1
Vinyl acetate	ND		ug/kg	12	0.18	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.21	1
2-Hexanone	ND		ug/kg	12	0.81	1
Bromochloromethane	ND		ug/kg	6.1	0.43	1
2,2-Dichloropropane	ND		ug/kg	6.1	0.55	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.24	1
1,3-Dichloropropane	ND		ug/kg	6.1	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.39	1
Bromobenzene	ND		ug/kg	6.1	0.26	1
n-Butylbenzene	ND		ug/kg	1.2	0.28	1
sec-Butylbenzene	ND		ug/kg	1.2	0.26	1
tert-Butylbenzene	ND		ug/kg	6.1	0.30	1
o-Chlorotoluene	ND		ug/kg	6.1	0.27	1
p-Chlorotoluene	ND		ug/kg	6.1	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.1	0.48	1
Hexachlorobutadiene	ND		ug/kg	6.1	0.42	1
Isopropylbenzene	ND		ug/kg	1.2	0.24	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.24	1
Naphthalene	ND		ug/kg	6.1	0.17	1
Acrylonitrile	ND		ug/kg	12	0.62	1
Tert-Butyl Alcohol	ND		ug/kg	73	3.6	1
n-Propylbenzene	ND		ug/kg	1.2	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.1	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.1	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.1	0.20	1



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-06
Client ID: WCB12_26-28
Sample Location: BRONX, NY

Date Collected: 09/01/17 13:10
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.1	0.22	1
Methyl Acetate	ND		ug/kg	24	0.56	1
Acrolein	ND		ug/kg	30	9.8	1
Cyclohexane	ND		ug/kg	24	0.52	1
1,4-Dioxane	ND		ug/kg	48	17.	1
Freon-113	ND		ug/kg	24	0.62	1
p-Diethylbenzene	ND		ug/kg	4.8	4.8	1
p-Ethyltoluene	ND		ug/kg	4.8	0.28	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.8	0.19	1
Ethyl ether	ND		ug/kg	6.1	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	0.48	1
Methyl cyclohexane	ND		ug/kg	4.8	0.29	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	110		70-130

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-07
 Client ID: WC04A_COMP_0-5
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:41
 Date Received: 09/01/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/08/17 08:04
 Analyst: MM
 Percent Solids: 97%
 TCLP/SPLP Ext. Date: 09/06/17 14:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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TCLP Volatiles by EPA 1311 - Westborough Lab

Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	100		70-130
dibromofluoromethane	115		70-130

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-10
Client ID: WCFB01_090117
Sample Location: BRONX, NY

Date Collected: 09/01/17 14:15
Date Received: 09/01/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/09/17 15:52
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-10
 Client ID: WCFB01_090117
 Sample Location: BRONX, NY

Date Collected: 09/01/17 14:15
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Tert-Butyl Alcohol	ND		ug/l	10	1.4	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Acrolein	ND		ug/l	5.0	0.44	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-10
Client ID: WCFB01_090117
Sample Location: BRONX, NY

Date Collected: 09/01/17 14:15
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	92		70-130

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-31
Client ID: WCTB02_090117
Sample Location: BRONX, NY

Date Collected: 09/01/17 00:00
Date Received: 09/01/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/09/17 16:17
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-31

Date Collected: 09/01/17 00:00

Client ID: WCTB02_090117

Date Received: 09/01/17

Sample Location: BRONX, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Tert-Butyl Alcohol	ND		ug/l	10	1.4	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.0	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Acrolein	ND		ug/l	5.0	0.44	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-31
Client ID: WCTB02_090117
Sample Location: BRONX, NY

Date Collected: 09/01/17 00:00
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	92		70-130

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-32
Client ID: WCB8_5-7
Sample Location: BRONX, NY

Date Collected: 09/01/17 13:55
Date Received: 09/01/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/09/17 15:49
Analyst: JC
Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.2	1.5	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.25	1
Chloroform	ND		ug/kg	1.4	0.34	1
Carbon tetrachloride	ND		ug/kg	0.92	0.32	1
1,2-Dichloropropane	ND		ug/kg	3.2	0.21	1
Dibromochloromethane	ND		ug/kg	0.92	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.29	1
Tetrachloroethene	ND		ug/kg	0.92	0.28	1
Chlorobenzene	ND		ug/kg	0.92	0.32	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.38	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.23	1
1,1,1-Trichloroethane	0.45	J	ug/kg	0.92	0.32	1
Bromodichloromethane	ND		ug/kg	0.92	0.28	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.92	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.92	0.19	1
1,1-Dichloropropene	ND		ug/kg	4.6	0.30	1
Bromoform	ND		ug/kg	3.7	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.92	0.27	1
Benzene	ND		ug/kg	0.92	0.18	1
Toluene	ND		ug/kg	1.4	0.18	1
Ethylbenzene	ND		ug/kg	0.92	0.16	1
Chloromethane	ND		ug/kg	4.6	0.40	1
Bromomethane	ND		ug/kg	1.8	0.31	1
Vinyl chloride	ND		ug/kg	1.8	0.29	1
Chloroethane	ND		ug/kg	1.8	0.29	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.22	1
Trichloroethene	2.8		ug/kg	0.92	0.28	1
1,2-Dichlorobenzene	ND		ug/kg	4.6	0.17	1



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-32

Date Collected: 09/01/17 13:55

Client ID: WCB8_5-7

Date Received: 09/01/17

Sample Location: BRONX, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	4.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	4.6	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.14	1
p/m-Xylene	ND		ug/kg	1.8	0.32	1
o-Xylene	ND		ug/kg	1.8	0.31	1
Xylenes, Total	ND		ug/kg	1.8	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	0.92	0.31	1
Dibromomethane	ND		ug/kg	9.2	0.22	1
Styrene	ND		ug/kg	1.8	0.37	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.46	1
Acetone	ND		ug/kg	9.2	2.1	1
Carbon disulfide	ND		ug/kg	9.2	1.0	1
2-Butanone	ND		ug/kg	9.2	0.63	1
Vinyl acetate	ND		ug/kg	9.2	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	0.22	1
1,2,3-Trichloropropane	ND		ug/kg	9.2	0.16	1
2-Hexanone	ND		ug/kg	9.2	0.61	1
Bromochloromethane	ND		ug/kg	4.6	0.33	1
2,2-Dichloropropane	ND		ug/kg	4.6	0.41	1
1,2-Dibromoethane	ND		ug/kg	3.7	0.18	1
1,3-Dichloropropane	ND		ug/kg	4.6	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.92	0.29	1
Bromobenzene	ND		ug/kg	4.6	0.20	1
n-Butylbenzene	ND		ug/kg	0.92	0.21	1
sec-Butylbenzene	ND		ug/kg	0.92	0.20	1
tert-Butylbenzene	ND		ug/kg	4.6	0.23	1
o-Chlorotoluene	ND		ug/kg	4.6	0.20	1
p-Chlorotoluene	ND		ug/kg	4.6	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.6	0.36	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.32	1
Isopropylbenzene	ND		ug/kg	0.92	0.18	1
p-Isopropyltoluene	ND		ug/kg	0.92	0.18	1
Naphthalene	ND		ug/kg	4.6	0.13	1
Acrylonitrile	ND		ug/kg	9.2	0.47	1
Tert-Butyl Alcohol	ND		ug/kg	55	2.7	1
n-Propylbenzene	ND		ug/kg	0.92	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.6	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.6	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.6	0.15	1



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-32
Client ID: WCB8_5-7
Sample Location: BRONX, NY

Date Collected: 09/01/17 13:55
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	4.6	0.17	1
Methyl Acetate	ND		ug/kg	18	0.42	1
Acrolein	ND		ug/kg	23	7.4	1
Cyclohexane	ND		ug/kg	18	0.40	1
1,4-Dioxane	ND		ug/kg	37	13.	1
Freon-113	ND		ug/kg	18	0.47	1
p-Diethylbenzene	ND		ug/kg	3.7	3.7	1
p-Ethyltoluene	ND		ug/kg	3.7	0.22	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.7	0.14	1
Ethyl ether	ND		ug/kg	4.6	0.24	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	0.36	1
Methyl cyclohexane	ND		ug/kg	3.7	0.22	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	111		70-130

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-33
 Client ID: WCB8_13-15
 Sample Location: BRONX, NY

Date Collected: 09/01/17 14:00
 Date Received: 09/01/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/09/17 16:15
 Analyst: JC
 Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.0	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.22	1
Chloroform	ND		ug/kg	1.2	0.30	1
Carbon tetrachloride	ND		ug/kg	0.80	0.28	1
1,2-Dichloropropane	ND		ug/kg	2.8	0.18	1
Dibromochloromethane	ND		ug/kg	0.80	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.25	1
Tetrachloroethene	ND		ug/kg	0.80	0.24	1
Chlorobenzene	ND		ug/kg	0.80	0.28	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.33	1
1,2-Dichloroethane	ND		ug/kg	0.80	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	0.80	0.28	1
Bromodichloromethane	ND		ug/kg	0.80	0.25	1
trans-1,3-Dichloropropene	ND		ug/kg	0.80	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	0.80	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.80	0.17	1
1,1-Dichloropropene	ND		ug/kg	4.0	0.26	1
Bromoform	ND		ug/kg	3.2	0.19	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.80	0.24	1
Benzene	ND		ug/kg	0.80	0.15	1
Toluene	ND		ug/kg	1.2	0.16	1
Ethylbenzene	ND		ug/kg	0.80	0.14	1
Chloromethane	ND		ug/kg	4.0	0.35	1
Bromomethane	ND		ug/kg	1.6	0.27	1
Vinyl chloride	ND		ug/kg	1.6	0.25	1
Chloroethane	ND		ug/kg	1.6	0.25	1
1,1-Dichloroethene	ND		ug/kg	0.80	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.19	1
Trichloroethene	1.8		ug/kg	0.80	0.24	1
1,2-Dichlorobenzene	ND		ug/kg	4.0	0.14	1



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-33

Date Collected: 09/01/17 14:00

Client ID: WCB8_13-15

Date Received: 09/01/17

Sample Location: BRONX, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	4.0	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	4.0	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.6	0.12	1
p/m-Xylene	ND		ug/kg	1.6	0.28	1
o-Xylene	ND		ug/kg	1.6	0.27	1
Xylenes, Total	ND		ug/kg	1.6	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.80	0.27	1
Dibromomethane	ND		ug/kg	8.0	0.19	1
Styrene	ND		ug/kg	1.6	0.32	1
Dichlorodifluoromethane	ND		ug/kg	8.0	0.40	1
Acetone	ND		ug/kg	8.0	1.8	1
Carbon disulfide	ND		ug/kg	8.0	0.88	1
2-Butanone	ND		ug/kg	8.0	0.55	1
Vinyl acetate	ND		ug/kg	8.0	0.12	1
4-Methyl-2-pentanone	ND		ug/kg	8.0	0.20	1
1,2,3-Trichloropropane	ND		ug/kg	8.0	0.14	1
2-Hexanone	ND		ug/kg	8.0	0.53	1
Bromochloromethane	ND		ug/kg	4.0	0.28	1
2,2-Dichloropropane	ND		ug/kg	4.0	0.36	1
1,2-Dibromoethane	ND		ug/kg	3.2	0.16	1
1,3-Dichloropropane	ND		ug/kg	4.0	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.80	0.25	1
Bromobenzene	ND		ug/kg	4.0	0.18	1
n-Butylbenzene	ND		ug/kg	0.80	0.18	1
sec-Butylbenzene	ND		ug/kg	0.80	0.17	1
tert-Butylbenzene	ND		ug/kg	4.0	0.20	1
o-Chlorotoluene	ND		ug/kg	4.0	0.18	1
p-Chlorotoluene	ND		ug/kg	4.0	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	0.32	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.28	1
Isopropylbenzene	ND		ug/kg	0.80	0.16	1
p-Isopropyltoluene	ND		ug/kg	0.80	0.16	1
Naphthalene	ND		ug/kg	4.0	0.11	1
Acrylonitrile	ND		ug/kg	8.0	0.41	1
Tert-Butyl Alcohol	ND		ug/kg	48	2.3	1
n-Propylbenzene	ND		ug/kg	0.80	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.0	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	0.17	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	0.13	1



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-33
Client ID: WCB8_13-15
Sample Location: BRONX, NY

Date Collected: 09/01/17 14:00
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	0.15	1
Methyl Acetate	ND		ug/kg	16	0.37	1
Acrolein	ND		ug/kg	20	6.4	1
Cyclohexane	ND		ug/kg	16	0.35	1
1,4-Dioxane	ND		ug/kg	32	12.	1
Freon-113	ND		ug/kg	16	0.41	1
p-Diethylbenzene	ND		ug/kg	3.2	3.2	1
p-Ethyltoluene	ND		ug/kg	3.2	0.19	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.2	0.12	1
Ethyl ether	ND		ug/kg	4.0	0.21	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.0	0.31	1
Methyl cyclohexane	ND		ug/kg	3.2	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	108		70-130

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-34
 Client ID: WCB10_0-2
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:45
 Date Received: 09/01/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/10/17 14:18
 Analyst: MV
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	880	140	1
1,1-Dichloroethane	ND		ug/kg	130	24.	1
Chloroform	ND		ug/kg	130	32.	1
Carbon tetrachloride	ND		ug/kg	88	30.	1
1,2-Dichloropropane	ND		ug/kg	310	20.	1
Dibromochloromethane	ND		ug/kg	88	16.	1
1,1,2-Trichloroethane	ND		ug/kg	130	28.	1
Tetrachloroethene	ND		ug/kg	88	27.	1
Chlorobenzene	ND		ug/kg	88	31.	1
Trichlorofluoromethane	ND		ug/kg	440	37.	1
1,2-Dichloroethane	ND		ug/kg	88	22.	1
1,1,1-Trichloroethane	ND		ug/kg	88	31.	1
Bromodichloromethane	ND		ug/kg	88	27.	1
trans-1,3-Dichloropropene	ND		ug/kg	88	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	88	20.	1
1,3-Dichloropropene, Total	ND		ug/kg	88	18.	1
1,1-Dichloropropene	ND		ug/kg	440	29.	1
Bromoform	ND		ug/kg	350	21.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	88	26.	1
Benzene	ND		ug/kg	88	17.	1
Toluene	21	J	ug/kg	130	17.	1
Ethylbenzene	ND		ug/kg	88	15.	1
Chloromethane	ND		ug/kg	440	38.	1
Bromomethane	86	J	ug/kg	180	30.	1
Vinyl chloride	ND		ug/kg	180	28.	1
Chloroethane	ND		ug/kg	180	28.	1
1,1-Dichloroethene	ND		ug/kg	88	33.	1
trans-1,2-Dichloroethene	ND		ug/kg	130	21.	1
Trichloroethene	ND		ug/kg	88	27.	1
1,2-Dichlorobenzene	ND		ug/kg	440	16.	1



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-34

Date Collected: 09/01/17 13:45

Client ID: WCB10_0-2

Date Received: 09/01/17

Sample Location: BRONX, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	440	19.	1
1,4-Dichlorobenzene	ND		ug/kg	440	16.	1
Methyl tert butyl ether	ND		ug/kg	180	13.	1
p/m-Xylene	ND		ug/kg	180	31.	1
o-Xylene	ND		ug/kg	180	30.	1
Xylenes, Total	ND		ug/kg	180	30.	1
cis-1,2-Dichloroethene	ND		ug/kg	88	30.	1
Dibromomethane	ND		ug/kg	880	21.	1
Styrene	ND		ug/kg	180	35.	1
Dichlorodifluoromethane	ND		ug/kg	880	44.	1
Acetone	ND		ug/kg	880	200	1
Carbon disulfide	160	J	ug/kg	880	97.	1
2-Butanone	ND		ug/kg	880	61.	1
Vinyl acetate	ND		ug/kg	880	13.	1
4-Methyl-2-pentanone	ND		ug/kg	880	21.	1
1,2,3-Trichloropropane	ND		ug/kg	880	16.	1
2-Hexanone	ND		ug/kg	880	59.	1
Bromochloromethane	ND		ug/kg	440	31.	1
2,2-Dichloropropane	ND		ug/kg	440	40.	1
1,2-Dibromoethane	ND		ug/kg	350	18.	1
1,3-Dichloropropane	ND		ug/kg	440	16.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	88	28.	1
Bromobenzene	ND		ug/kg	440	19.	1
n-Butylbenzene	ND		ug/kg	88	20.	1
sec-Butylbenzene	ND		ug/kg	88	19.	1
tert-Butylbenzene	ND		ug/kg	440	22.	1
o-Chlorotoluene	ND		ug/kg	440	19.	1
p-Chlorotoluene	ND		ug/kg	440	16.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	440	35.	1
Hexachlorobutadiene	ND		ug/kg	440	31.	1
Isopropylbenzene	ND		ug/kg	88	17.	1
p-Isopropyltoluene	ND		ug/kg	88	18.	1
Naphthalene	1900		ug/kg	440	12.	1
Acrylonitrile	ND		ug/kg	880	45.	1
Tert-Butyl Alcohol	ND		ug/kg	5300	260	1
n-Propylbenzene	ND		ug/kg	88	19.	1
1,2,3-Trichlorobenzene	ND		ug/kg	440	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	440	19.	1
1,3,5-Trimethylbenzene	ND		ug/kg	440	14.	1



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-34
Client ID: WCB10_0-2
Sample Location: BRONX, NY

Date Collected: 09/01/17 13:45
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	19	J	ug/kg	440	16.	1
Methyl Acetate	ND		ug/kg	1800	41.	1
Acrolein	ND		ug/kg	2200	710	1
Cyclohexane	ND		ug/kg	1800	38.	1
1,4-Dioxane	ND		ug/kg	3500	1300	1
Freon-113	ND		ug/kg	1800	45.	1
p-Diethylbenzene	ND		ug/kg	350	350	1
p-Ethyltoluene	ND		ug/kg	350	21.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	350	14.	1
Ethyl ether	ND		ug/kg	440	23.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	440	34.	1
Methyl cyclohexane	35	J	ug/kg	350	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	96		70-130

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/08/17 04:25
Analyst: MM
TCLP/SPLP Extraction Date: 09/06/17 14:50

Extraction Date: 09/06/17 14:50

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 07 Batch: WG1039677-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	89		70-130
dibromofluoromethane	106		70-130

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/09/17 13:20
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10,31 Batch: WG1040166-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/09/17 13:20
 Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10,31 Batch: WG1040166-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Tert-Butyl Alcohol	ND		ug/l	10	1.4
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Acrolein	ND		ug/l	5.0	0.44
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/09/17 13:20
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10,31 Batch: WG1040166-5					
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/09/17 13:20
 Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10,31 Batch: WG1040166-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	90		70-130

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/09/17 11:25
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-06,32-33 Batch: WG1040242-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/09/17 11:25
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-06,32-33 Batch: WG1040242-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22
p-Chlorotoluene	ND		ug/kg	5.0	0.18



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/09/17 11:25
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-06,32-33 Batch: WG1040242-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
Tert-Butyl Alcohol	ND		ug/kg	60	2.9
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
Methyl Acetate	ND		ug/kg	20	0.46
Acrolein	ND		ug/kg	25	8.0
Cyclohexane	ND		ug/kg	20	0.43
1,4-Dioxane	ND		ug/kg	40	14.
Freon-113	ND		ug/kg	20	0.51
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Methyl cyclohexane	ND		ug/kg	4.0	0.24

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/09/17 11:25
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-06,32-33 Batch: WG1040242-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	104		70-130

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/10/17 11:01
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG1040297-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/10/17 11:01
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG1040297-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22
p-Chlorotoluene	ND		ug/kg	5.0	0.18



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/10/17 11:01
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG1040297-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
Tert-Butyl Alcohol	ND		ug/kg	60	2.9
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
Methyl Acetate	ND		ug/kg	20	0.46
Acrolein	ND		ug/kg	25	8.0
Cyclohexane	ND		ug/kg	20	0.43
1,4-Dioxane	ND		ug/kg	40	14.
Freon-113	ND		ug/kg	20	0.51
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Methyl cyclohexane	ND		ug/kg	4.0	0.24

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/10/17 11:01
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG1040297-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	98		70-130

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/10/17 12:59
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 34 Batch: WG1040300-5					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
1,3-Dichloropropene, Total	ND		ug/kg	50	10.
1,1-Dichloropropene	ND		ug/kg	250	16.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Chloromethane	ND		ug/kg	250	22.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.
Trichloroethene	ND		ug/kg	50	15.



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/10/17 12:59
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 34 Batch: WG1040300-5					
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.
1,4-Dichlorobenzene	ND		ug/kg	250	9.1
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
Xylenes, Total	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
Dibromomethane	ND		ug/kg	500	12.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	ND		ug/kg	500	110
Carbon disulfide	ND		ug/kg	500	55.
2-Butanone	ND		ug/kg	500	34.
Vinyl acetate	ND		ug/kg	500	7.6
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	8.8
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	18.
2,2-Dichloropropane	ND		ug/kg	250	22.
1,2-Dibromoethane	ND		ug/kg	200	10.
1,3-Dichloropropane	ND		ug/kg	250	9.2
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	11.
n-Butylbenzene	ND		ug/kg	50	11.
sec-Butylbenzene	ND		ug/kg	50	11.
tert-Butylbenzene	ND		ug/kg	250	12.
o-Chlorotoluene	ND		ug/kg	250	11.
p-Chlorotoluene	ND		ug/kg	250	9.2



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/10/17 12:59
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 34 Batch: WG1040300-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Hexachlorobutadiene	ND		ug/kg	250	17.
Isopropylbenzene	ND		ug/kg	50	9.7
p-Isopropyltoluene	ND		ug/kg	50	10.
Naphthalene	ND		ug/kg	250	6.9
Acrylonitrile	ND		ug/kg	500	26.
Tert-Butyl Alcohol	ND		ug/kg	3000	150
n-Propylbenzene	ND		ug/kg	50	11.
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.0
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.3
Methyl Acetate	ND		ug/kg	1000	23.
Acrolein	ND		ug/kg	1200	400
Cyclohexane	ND		ug/kg	1000	22.
1,4-Dioxane	ND		ug/kg	2000	720
Freon-113	ND		ug/kg	1000	26.
p-Diethylbenzene	ND		ug/kg	200	200
p-Ethyltoluene	ND		ug/kg	200	12.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	7.8
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	20.
Methyl cyclohexane	ND		ug/kg	200	12.

Tentatively Identified Compounds

Total TIC Compounds	333	J	ug/kg
Unknown	205	J	ug/kg



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/10/17 12:59
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 34 Batch: WG1040300-5					

Tentatively Identified Compounds

Unknown	128	J	ug/kg		
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Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 07 Batch: WG1039677-3 WG1039677-4								
Chloroform	110		100		70-130	10		20
Carbon tetrachloride	93		91		63-132	2		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	110		100		75-130	10		25
1,2-Dichloroethane	100		95		70-130	5		20
Benzene	110		110		70-130	0		25
Vinyl chloride	94		80		55-140	16		20
1,1-Dichloroethene	100		91		61-145	9		25
Trichloroethene	100		97		70-130	3		25
1,4-Dichlorobenzene	100		100		70-130	0		20
2-Butanone	91		84		63-138	8		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	96		92		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	91		95		70-130
dibromofluoromethane	105		101		70-130



Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10,31 Batch: WG1040166-3 WG1040166-4								
Methylene chloride	87		82		70-130	6		20
1,1-Dichloroethane	87		82		70-130	6		20
Chloroform	87		82		70-130	6		20
Carbon tetrachloride	88		82		63-132	7		20
1,2-Dichloropropane	89		85		70-130	5		20
Dibromochloromethane	96		92		63-130	4		20
1,1,2-Trichloroethane	99		97		70-130	2		20
Tetrachloroethene	84		80		70-130	5		20
Chlorobenzene	87		83		75-130	5		20
Trichlorofluoromethane	89		82		62-150	8		20
1,2-Dichloroethane	96		94		70-130	2		20
1,1,1-Trichloroethane	87		81		67-130	7		20
Bromodichloromethane	90		85		67-130	6		20
trans-1,3-Dichloropropene	100		98		70-130	2		20
cis-1,3-Dichloropropene	92		88		70-130	4		20
1,1-Dichloropropene	88		82		70-130	7		20
Bromoform	98		91		54-136	7		20
1,1,2,2-Tetrachloroethane	110		100		67-130	10		20
Benzene	85		80		70-130	6		20
Toluene	87		83		70-130	5		20
Ethylbenzene	88		83		70-130	6		20
Chloromethane	90		85		64-130	6		20
Bromomethane	88		81		39-139	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10,31 Batch: WG1040166-3 WG1040166-4								
Vinyl chloride	93		86		55-140	8		20
Chloroethane	81		74		55-138	9		20
1,1-Dichloroethene	86		80		61-145	7		20
trans-1,2-Dichloroethene	84		78		70-130	7		20
Trichloroethene	83		80		70-130	4		20
1,2-Dichlorobenzene	93		89		70-130	4		20
1,3-Dichlorobenzene	90		85		70-130	6		20
1,4-Dichlorobenzene	92		86		70-130	7		20
Methyl tert butyl ether	96		94		63-130	2		20
p/m-Xylene	90		85		70-130	6		20
o-Xylene	90		85		70-130	6		20
cis-1,2-Dichloroethene	87		79		70-130	10		20
Dibromomethane	96		90		70-130	6		20
1,2,3-Trichloropropane	110		110		64-130	0		20
Acrylonitrile	100		100		70-130	0		20
Tert-Butyl Alcohol	112		126		70-130	12		20
Styrene	90		85		70-130	6		20
Dichlorodifluoromethane	88		82		36-147	7		20
Acetone	110		110		58-148	0		20
Carbon disulfide	82		76		51-130	8		20
2-Butanone	99		97		63-138	2		20
Vinyl acetate	100		100		70-130	0		20
4-Methyl-2-pentanone	100		100		59-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10,31 Batch: WG1040166-3 WG1040166-4								
2-Hexanone	110		110		57-130	0		20
Acrolein	100		100		40-160	0		20
Bromochloromethane	86		83		70-130	4		20
2,2-Dichloropropane	94		87		63-133	8		20
1,2-Dibromoethane	100		98		70-130	2		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	89		84		64-130	6		20
Bromobenzene	90		84		70-130	7		20
n-Butylbenzene	96		91		53-136	5		20
sec-Butylbenzene	94		88		70-130	7		20
tert-Butylbenzene	92		86		70-130	7		20
o-Chlorotoluene	96		89		70-130	8		20
p-Chlorotoluene	94		88		70-130	7		20
1,2-Dibromo-3-chloropropane	96		94		41-144	2		20
Hexachlorobutadiene	85		85		63-130	0		20
Isopropylbenzene	92		86		70-130	7		20
p-Isopropyltoluene	91		86		70-130	6		20
Naphthalene	110		120		70-130	9		20
n-Propylbenzene	94		88		69-130	7		20
1,2,3-Trichlorobenzene	110		110		70-130	0		20
1,2,4-Trichlorobenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene	91		85		64-130	7		20
1,2,4-Trimethylbenzene	91		85		70-130	7		20

Lab Control Sample Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10,31 Batch: WG1040166-3 WG1040166-4								
Methyl Acetate	100		100		70-130	0		20
Cyclohexane	88		84		70-130	5		20
1,4-Dioxane	136		154		56-162	12		20
Freon-113	87		81		70-130	7		20
p-Diethylbenzene	92		86		70-130	7		20
p-Ethyltoluene	92		86		70-130	7		20
1,2,4,5-Tetramethylbenzene	86		82		70-130	5		20
Ethyl ether	95		92		59-134	3		20
trans-1,4-Dichloro-2-butene	110		100		70-130	10		20
Methyl cyclohexane	77		73		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		110		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	105		103		70-130
Dibromofluoromethane	94		94		70-130



Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06,32-33 Batch: WG1040242-3 WG1040242-4								
Methylene chloride	87		82		70-130	6		30
1,1-Dichloroethane	90		81		70-130	11		30
Chloroform	88		93		70-130	6		30
Carbon tetrachloride	84		86		70-130	2		30
1,2-Dichloropropane	84		84		70-130	0		30
Dibromochloromethane	86		90		70-130	5		30
1,1,2-Trichloroethane	92		93		70-130	1		30
Tetrachloroethene	92		95		70-130	3		30
Chlorobenzene	89		93		70-130	4		30
Trichlorofluoromethane	90		90		70-139	0		30
1,2-Dichloroethane	83		84		70-130	1		30
1,1,1-Trichloroethane	90		91		70-130	1		30
Bromodichloromethane	82		85		70-130	4		30
trans-1,3-Dichloropropene	86		89		70-130	3		30
cis-1,3-Dichloropropene	80		82		70-130	2		30
1,1-Dichloropropene	87		88		70-130	1		30
Bromoform	86		89		70-130	3		30
1,1,2,2-Tetrachloroethane	91		91		70-130	0		30
Benzene	85		87		70-130	2		30
Toluene	92		95		70-130	3		30
Ethylbenzene	91		95		70-130	4		30
Chloromethane	77		83		52-130	8		30
Bromomethane	95		96		57-147	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06,32-33 Batch: WG1040242-3 WG1040242-4								
Vinyl chloride	74		77		67-130	4		30
Chloroethane	88		86		50-151	2		30
1,1-Dichloroethene	90		91		65-135	1		30
trans-1,2-Dichloroethene	90		86		70-130	5		30
Trichloroethene	85		87		70-130	2		30
1,2-Dichlorobenzene	92		95		70-130	3		30
1,3-Dichlorobenzene	94		95		70-130	1		30
1,4-Dichlorobenzene	92		93		70-130	1		30
Methyl tert butyl ether	89		84		66-130	6		30
p/m-Xylene	91		96		70-130	5		30
o-Xylene	91		95		70-130	4		30
cis-1,2-Dichloroethene	88		89		70-130	1		30
Dibromomethane	83		84		70-130	1		30
Styrene	90		91		70-130	1		30
Dichlorodifluoromethane	77		82		30-146	6		30
Acetone	81		68		54-140	17		30
Carbon disulfide	100		114		59-130	13		30
2-Butanone	84		78		70-130	7		30
Vinyl acetate	75		67	Q	70-130	11		30
4-Methyl-2-pentanone	77		76		70-130	1		30
1,2,3-Trichloropropane	90		90		68-130	0		30
2-Hexanone	70		71		70-130	1		30
Bromochloromethane	91		92		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06,32-33 Batch: WG1040242-3 WG1040242-4								
2,2-Dichloropropane	92		93		70-130	1		30
1,2-Dibromoethane	86		90		70-130	5		30
1,3-Dichloropropane	88		90		69-130	2		30
1,1,1,2-Tetrachloroethane	89		93		70-130	4		30
Bromobenzene	92		94		70-130	2		30
n-Butylbenzene	96		98		70-130	2		30
sec-Butylbenzene	96		98		70-130	2		30
tert-Butylbenzene	94		97		70-130	3		30
o-Chlorotoluene	81		108		70-130	29		30
p-Chlorotoluene	94		96		70-130	2		30
1,2-Dibromo-3-chloropropane	80		76		68-130	5		30
Hexachlorobutadiene	85		87		67-130	2		30
Isopropylbenzene	96		98		70-130	2		30
p-Isopropyltoluene	95		98		70-130	3		30
Naphthalene	78		78		70-130	0		30
Acrylonitrile	81		72		70-130	12		30
Tert-Butyl Alcohol	85		79		70-130	7		30
n-Propylbenzene	95		98		70-130	3		30
1,2,3-Trichlorobenzene	81		82		70-130	1		30
1,2,4-Trichlorobenzene	84		86		70-130	2		30
1,3,5-Trimethylbenzene	96		99		70-130	3		30
1,2,4-Trimethylbenzene	96		98		70-130	2		30
Methyl Acetate	87		81		51-146	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Project Number: 170488401

Lab Number: L1731032

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06,32-33 Batch: WG1040242-3 WG1040242-4								
Acrolein	82		89		70-130	8		30
Cyclohexane	81		82		59-142	1		30
1,4-Dioxane	56	Q	56	Q	65-136	0		30
Freon-113	89		90		50-139	1		30
p-Diethylbenzene	94		97		70-130	3		30
p-Ethyltoluene	96		98		70-130	2		30
1,2,4,5-Tetramethylbenzene	94		94		70-130	0		30
Ethyl ether	88		89		67-130	1		30
trans-1,4-Dichloro-2-butene	74		74		70-130	0		30
Methyl cyclohexane	82		84		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		101		70-130
Toluene-d8	109		112		70-130
4-Bromofluorobenzene	105		102		70-130
Dibromofluoromethane	103		102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG1040297-3 WG1040297-4								
Methylene chloride	94		93		70-130	1		30
1,1-Dichloroethane	91		93		70-130	2		30
Chloroform	92		94		70-130	2		30
Carbon tetrachloride	96		99		70-130	3		30
1,2-Dichloropropane	94		96		70-130	2		30
Dibromochloromethane	92		95		70-130	3		30
1,1,2-Trichloroethane	95		96		70-130	1		30
Tetrachloroethene	102		99		70-130	3		30
Chlorobenzene	95		95		70-130	0		30
Trichlorofluoromethane	97		97		70-139	0		30
1,2-Dichloroethane	87		91		70-130	4		30
1,1,1-Trichloroethane	94		95		70-130	1		30
Bromodichloromethane	89		91		70-130	2		30
trans-1,3-Dichloropropene	90		93		70-130	3		30
cis-1,3-Dichloropropene	92		94		70-130	2		30
1,1-Dichloropropene	96		97		70-130	1		30
Bromoform	91		94		70-130	3		30
1,1,2,2-Tetrachloroethane	93		95		70-130	2		30
Benzene	94		96		70-130	2		30
Toluene	96		95		70-130	1		30
Ethylbenzene	94		95		70-130	1		30
Chloromethane	96		96		52-130	0		30
Bromomethane	102		98		57-147	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG1040297-3 WG1040297-4								
Vinyl chloride	96		100		67-130	4		30
Chloroethane	89		91		50-151	2		30
1,1-Dichloroethene	101		102		65-135	1		30
trans-1,2-Dichloroethene	98		98		70-130	0		30
Trichloroethene	96		97		70-130	1		30
1,2-Dichlorobenzene	96		97		70-130	1		30
1,3-Dichlorobenzene	100		102		70-130	2		30
1,4-Dichlorobenzene	96		98		70-130	2		30
Methyl tert butyl ether	92		94		66-130	2		30
p/m-Xylene	97		97		70-130	0		30
o-Xylene	96		97		70-130	1		30
cis-1,2-Dichloroethene	95		94		70-130	1		30
Dibromomethane	90		91		70-130	1		30
Styrene	94		94		70-130	0		30
Dichlorodifluoromethane	103		106		30-146	3		30
Acetone	88		86		54-140	2		30
Carbon disulfide	102		104		59-130	2		30
2-Butanone	94		94		70-130	0		30
Vinyl acetate	91		94		70-130	3		30
4-Methyl-2-pentanone	90		89		70-130	1		30
1,2,3-Trichloropropane	93		98		68-130	5		30
2-Hexanone	84		90		70-130	7		30
Bromochloromethane	102		98		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG1040297-3 WG1040297-4									
2,2-Dichloropropane	102		103		70-130	1		30	
1,2-Dibromoethane	96		94		70-130	2		30	
1,3-Dichloropropane	93		94		69-130	1		30	
1,1,1,2-Tetrachloroethane	92		93		70-130	1		30	
Bromobenzene	96		101		70-130	5		30	
n-Butylbenzene	98		101		70-130	3		30	
sec-Butylbenzene	99		100		70-130	1		30	
tert-Butylbenzene	98		100		70-130	2		30	
o-Chlorotoluene	94		97		70-130	3		30	
p-Chlorotoluene	95		99		70-130	4		30	
1,2-Dibromo-3-chloropropane	95		92		68-130	3		30	
Hexachlorobutadiene	100		101		67-130	1		30	
Isopropylbenzene	98		100		70-130	2		30	
p-Isopropyltoluene	98		101		70-130	3		30	
Naphthalene	92		96		70-130	4		30	
Acrylonitrile	90		92		70-130	2		30	
Tert-Butyl Alcohol	87		91		70-130	4		30	
n-Propylbenzene	96		99		70-130	3		30	
1,2,3-Trichlorobenzene	93		96		70-130	3		30	
1,2,4-Trichlorobenzene	98		99		70-130	1		30	
1,3,5-Trimethylbenzene	96		99		70-130	3		30	
1,2,4-Trimethylbenzene	96		98		70-130	2		30	
Methyl Acetate	94		95		51-146	1		30	

Lab Control Sample Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG1040297-3 WG1040297-4								
Acrolein	82		82		70-130	0		30
Cyclohexane	100		100		59-142	0		30
1,4-Dioxane	87		90		65-136	3		30
Freon-113	101		103		50-139	2		30
p-Diethylbenzene	98		98		70-130	0		30
p-Ethyltoluene	97		100		70-130	3		30
1,2,4,5-Tetramethylbenzene	94		95		70-130	1		30
Ethyl ether	95		93		67-130	2		30
trans-1,4-Dichloro-2-butene	97		99		70-130	2		30
Methyl cyclohexane	100		102		70-130	2		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	92		93		70-130
Toluene-d8	98		100		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	98		98		70-130



Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 34 Batch: WG1040300-3 WG1040300-4								
Methylene chloride	90		88		70-130	2		30
1,1-Dichloroethane	95		93		70-130	2		30
Chloroform	92		89		70-130	3		30
Carbon tetrachloride	97		94		70-130	3		30
1,2-Dichloropropane	93		92		70-130	1		30
Dibromochloromethane	94		94		70-130	0		30
1,1,2-Trichloroethane	95		94		70-130	1		30
Tetrachloroethene	97		97		70-130	0		30
Chlorobenzene	93		92		70-130	1		30
Trichlorofluoromethane	94		92		70-139	2		30
1,2-Dichloroethane	93		91		70-130	2		30
1,1,1-Trichloroethane	97		94		70-130	3		30
Bromodichloromethane	92		91		70-130	1		30
trans-1,3-Dichloropropene	94		96		70-130	2		30
cis-1,3-Dichloropropene	92		91		70-130	1		30
1,1-Dichloropropene	94		93		70-130	1		30
Bromoform	85		81		70-130	5		30
1,1,2,2-Tetrachloroethane	99		98		70-130	1		30
Benzene	93		88		70-130	6		30
Toluene	97		92		70-130	5		30
Ethylbenzene	91		90		70-130	1		30
Chloromethane	101		92		52-130	9		30
Bromomethane	96		93		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 34 Batch: WG1040300-3 WG1040300-4								
Vinyl chloride	99		96		67-130	3		30
Chloroethane	91		86		50-151	6		30
1,1-Dichloroethene	96		90		65-135	6		30
trans-1,2-Dichloroethene	92		91		70-130	1		30
Trichloroethene	88		86		70-130	2		30
1,2-Dichlorobenzene	92		88		70-130	4		30
1,3-Dichlorobenzene	95		92		70-130	3		30
1,4-Dichlorobenzene	94		92		70-130	2		30
Methyl tert butyl ether	92		91		66-130	1		30
p/m-Xylene	88		87		70-130	1		30
o-Xylene	90		89		70-130	1		30
cis-1,2-Dichloroethene	92		90		70-130	2		30
Dibromomethane	96		91		70-130	5		30
Styrene	90		89		70-130	1		30
Dichlorodifluoromethane	101		96		30-146	5		30
Acetone	98		100		54-140	2		30
Carbon disulfide	94		94		59-130	0		30
2-Butanone	101		96		70-130	5		30
Vinyl acetate	85		85		70-130	0		30
4-Methyl-2-pentanone	101		92		70-130	9		30
1,2,3-Trichloropropane	91		87		68-130	4		30
2-Hexanone	94		95		70-130	1		30
Bromochloromethane	90		89		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 34 Batch: WG1040300-3 WG1040300-4								
2,2-Dichloropropane	99		97		70-130	2		30
1,2-Dibromoethane	97		93		70-130	4		30
1,3-Dichloropropane	96		94		69-130	2		30
1,1,1,2-Tetrachloroethane	95		91		70-130	4		30
Bromobenzene	98		92		70-130	6		30
n-Butylbenzene	97		93		70-130	4		30
sec-Butylbenzene	96		92		70-130	4		30
tert-Butylbenzene	95		93		70-130	2		30
o-Chlorotoluene	97		93		70-130	4		30
p-Chlorotoluene	98		94		70-130	4		30
1,2-Dibromo-3-chloropropane	94		86		68-130	9		30
Hexachlorobutadiene	95		90		67-130	5		30
Isopropylbenzene	98		92		70-130	6		30
p-Isopropyltoluene	94		90		70-130	4		30
Naphthalene	92		91		70-130	1		30
Acrylonitrile	92		91		70-130	1		30
Tert-Butyl Alcohol	91		90		70-130	1		30
n-Propylbenzene	95		90		70-130	5		30
1,2,3-Trichlorobenzene	92		90		70-130	2		30
1,2,4-Trichlorobenzene	96		92		70-130	4		30
1,3,5-Trimethylbenzene	93		89		70-130	4		30
1,2,4-Trimethylbenzene	94		90		70-130	4		30
Methyl Acetate	97		94		51-146	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Project Number: 170488401

Lab Number: L1731032

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 34 Batch: WG1040300-3 WG1040300-4								
Acrolein	80		116		70-130	37	Q	30
Cyclohexane	94		93		59-142	1		30
1,4-Dioxane	92		98		65-136	6		30
Freon-113	98		92		50-139	6		30
p-Diethylbenzene	94		89		70-130	5		30
p-Ethyltoluene	97		91		70-130	6		30
1,2,4,5-Tetramethylbenzene	90		86		70-130	5		30
Ethyl ether	93		94		67-130	1		30
trans-1,4-Dichloro-2-butene	94		95		70-130	1		30
Methyl cyclohexane	91		90		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		96		70-130
Toluene-d8	106		104		70-130
4-Bromofluorobenzene	108		103		70-130
Dibromofluoromethane	96		99		70-130

SEMIVOLATILES

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-01
 Client ID: WC03A_COMP_0-6
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:31
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/11/17 14:37

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/12/17 18:34
 Analyst: PS
 Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	47	J	ug/kg	140	18.	1
Benzidine	ND		ug/kg	560	180	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	30.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Azobenzene	ND		ug/kg	170	16.	1
Fluoranthene	670		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	480	150	1
Hexachloroethane	ND		ug/kg	140	27.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	32	J	ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	39	J	ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-01
 Client ID: WC03A_COMP_0-6
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:31
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	380		ug/kg	100	19.	1
Benzo(a)pyrene	340		ug/kg	140	41.	1
Benzo(b)fluoranthene	430		ug/kg	100	29.	1
Benzo(k)fluoranthene	140		ug/kg	100	27.	1
Chrysene	390		ug/kg	100	18.	1
Acenaphthylene	32	J	ug/kg	140	26.	1
Anthracene	100		ug/kg	100	33.	1
Benzo(ghi)perylene	190		ug/kg	140	20.	1
Fluorene	35	J	ug/kg	170	16.	1
Phenanthrene	550		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	54	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	200		ug/kg	140	24.	1
Pyrene	670		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	39.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	70.	1
Dibenzofuran	30	J	ug/kg	170	16.	1
2-Methylnaphthalene	30	J	ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
n-Nitrosodimethylamine	ND		ug/kg	340	33.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	69.	1
2,4-Dinitrophenol	ND		ug/kg	820	79.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	82.	1
Pentachlorophenol	ND		ug/kg	140	37.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	48	J	ug/kg	240	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	32.	1



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-01
Client ID: WC03A_COMP_0-6
Sample Location: BRONX, NY

Date Collected: 09/01/17 13:31
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzoic Acid	ND		ug/kg	550	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	35	J	ug/kg	170	16.	1
Atrazine	ND		ug/kg	140	59.	1
Benzaldehyde	ND		ug/kg	220	46.	1
Caprolactam	ND		ug/kg	170	52.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	34.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	19		10-136
4-Terphenyl-d14	67		18-120

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-02
 Client ID: WC03B_COMP_6-12
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:21
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 08:03

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/08/17 03:30
 Analyst: PS
 Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	130	17.	1
Benzidine	ND		ug/kg	560	180	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	30.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	29.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Azobenzene	ND		ug/kg	170	16.	1
Fluoranthene	82	J	ug/kg	100	19.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	480	150	1
Hexachloroethane	ND		ug/kg	130	27.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	20.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	130	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.	1
Butyl benzyl phthalate	ND		ug/kg	170	42.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	57.	1



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-02
 Client ID: WC03B_COMP_6-12
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:21
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	35.	1
Benzo(a)anthracene	50	J	ug/kg	100	19.	1
Benzo(a)pyrene	43	J	ug/kg	130	41.	1
Benzo(b)fluoranthene	66	J	ug/kg	100	28.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	45	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	130	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	30	J	ug/kg	130	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	55	J	ug/kg	100	20.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.	1
Indeno(1,2,3-cd)pyrene	32	J	ug/kg	130	23.	1
Pyrene	74	J	ug/kg	100	17.	1
Biphenyl	ND		ug/kg	380	39.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	32.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	70.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
n-Nitrosodimethylamine	ND		ug/kg	340	32.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	360	63.	1
4-Nitrophenol	ND		ug/kg	240	69.	1
2,4-Dinitrophenol	ND		ug/kg	810	78.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	81.	1
Pentachlorophenol	ND		ug/kg	130	37.	1
Phenol	ND		ug/kg	170	25.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	32.	1



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-02
 Client ID: WC03B_COMP_6-12
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:21
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Benzoic Acid	ND		ug/kg	540	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	16.	1
Atrazine	ND		ug/kg	130	59.	1
Benzaldehyde	ND		ug/kg	220	45.	1
Caprolactam	ND		ug/kg	170	51.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	34.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	85		18-120

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-03
 Client ID: WC03N_COMP_12-28
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:15
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 08:03

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/08/17 00:09
 Analyst: PS
 Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	130	17.	1
Benzidine	ND		ug/kg	550	180	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	30.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	29.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Azobenzene	ND		ug/kg	170	16.	1
Fluoranthene	ND		ug/kg	100	19.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	24.	1
Hexachlorocyclopentadiene	ND		ug/kg	480	150	1
Hexachloroethane	ND		ug/kg	130	27.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	20.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	130	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.	1
Butyl benzyl phthalate	ND		ug/kg	170	42.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	57.	1



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-03
 Client ID: WC03N_COMP_12-28
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:15
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	35.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	130	41.	1
Benzo(b)fluoranthene	ND		ug/kg	100	28.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	17.	1
Acenaphthylene	ND		ug/kg	130	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	130	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	ND		ug/kg	100	20.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	380	39.	1
4-Chloroaniline	ND		ug/kg	170	30.	1
2-Nitroaniline	ND		ug/kg	170	32.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	70.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
n-Nitrosodimethylamine	ND		ug/kg	340	32.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	55.	1
2-Nitrophenol	ND		ug/kg	360	63.	1
4-Nitrophenol	ND		ug/kg	240	68.	1
2,4-Dinitrophenol	ND		ug/kg	810	78.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	81.	1
Pentachlorophenol	ND		ug/kg	130	37.	1
Phenol	ND		ug/kg	170	25.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	32.	1



Project Name: 414 GERARD AVE**Lab Number:** L1731032**Project Number:** 170488401**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731032-03
 Client ID: WC03N_COMP_12-28
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:15
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Benzoic Acid	ND		ug/kg	540	170	1
Benzyl Alcohol	ND		ug/kg	170	51.	1
Carbazole	ND		ug/kg	170	16.	1
Atrazine	ND		ug/kg	130	59.	1
Benzaldehyde	ND		ug/kg	220	45.	1
Caprolactam	ND		ug/kg	170	51.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	34.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	101		25-120
Phenol-d6	96		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	82		18-120

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-07
 Client ID: WC04A_COMP_0-5
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:41
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 09/05/17 17:15

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/07/17 12:39
 Analyst: HL
 Percent Solids: 97%
 TCLP/SPLP Ext. Date: 09/04/17 21:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	2.9	1
2,4-Dinitrotoluene	ND		ug/l	25	4.2	1
Hexachlorobutadiene	ND		ug/l	10	3.6	1
Hexachloroethane	ND		ug/l	10	3.4	1
Nitrobenzene	ND		ug/l	10	3.8	1
2,4,6-Trichlorophenol	ND		ug/l	25	3.4	1
Pentachlorophenol	ND		ug/l	50	17.	1
2-Methylphenol	ND		ug/l	25	5.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	5.6	1
2,4,5-Trichlorophenol	ND		ug/l	25	3.6	1
Pyridine	ND		ug/l	18	9.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		21-120
Phenol-d6	69		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	76		33-120

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-07
 Client ID: WC04A_COMP_0-5
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:41
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/11/17 10:33

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/12/17 19:00
 Analyst: PS
 Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	220		ug/kg	140	18.	1
Benzidine	ND		ug/kg	560	180	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Azobenzene	ND		ug/kg	170	16.	1
Fluoranthene	2800		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	150	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	240		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-07
 Client ID: WC04A_COMP_0-5
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:41
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	1300		ug/kg	100	19.	1
Benzo(a)pyrene	1200		ug/kg	140	42.	1
Benzo(b)fluoranthene	1500		ug/kg	100	29.	1
Benzo(k)fluoranthene	460		ug/kg	100	27.	1
Chrysene	1300		ug/kg	100	18.	1
Acenaphthylene	69	J	ug/kg	140	26.	1
Anthracene	430		ug/kg	100	33.	1
Benzo(ghi)perylene	670		ug/kg	140	20.	1
Fluorene	180		ug/kg	170	17.	1
Phenanthrene	2400		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	180		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	720		ug/kg	140	24.	1
Pyrene	2600		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	130	J	ug/kg	170	16.	1
2-Methylnaphthalene	130	J	ug/kg	200	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
n-Nitrosodimethylamine	ND		ug/kg	340	33.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1



Project Name: 414 GERARD AVE**Lab Number:** L1731032**Project Number:** 170488401**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731032-07
 Client ID: WC04A_COMP_0-5
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:41
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Benzoic Acid	ND		ug/kg	550	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	210		ug/kg	170	17.	1
Atrazine	ND		ug/kg	140	60.	1
Benzaldehyde	ND		ug/kg	220	46.	1
Caprolactam	ND		ug/kg	170	52.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	34.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	60		10-136
4-Terphenyl-d14	74		18-120

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-08
 Client ID: WC04B_COMP_5-10
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:51
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 08:03

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/08/17 03:55
 Analyst: PS
 Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Benzidine	ND		ug/kg	560	180	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	30.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Azobenzene	ND		ug/kg	170	16.	1
Fluoranthene	180		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	150	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-08
 Client ID: WC04B_COMP_5-10
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:51
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	120		ug/kg	100	19.	1
Benzo(a)pyrene	120	J	ug/kg	140	42.	1
Benzo(b)fluoranthene	150		ug/kg	100	29.	1
Benzo(k)fluoranthene	49	J	ug/kg	100	27.	1
Chrysene	110		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	66	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	110		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	76	J	ug/kg	140	24.	1
Pyrene	180		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	70.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
n-Nitrosodimethylamine	ND		ug/kg	340	33.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	69.	1
2,4-Dinitrophenol	ND		ug/kg	820	79.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	82.	1
Pentachlorophenol	ND		ug/kg	140	37.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1



Project Name: 414 GERARD AVE**Lab Number:** L1731032**Project Number:** 170488401**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731032-08
 Client ID: WC04B_COMP_5-10
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:51
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Benzoic Acid	ND		ug/kg	550	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	16.	1
Atrazine	ND		ug/kg	140	60.	1
Benzaldehyde	ND		ug/kg	220	46.	1
Caprolactam	ND		ug/kg	170	52.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	34.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	81		18-120

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-09
 Client ID: WC04N_COMP_10-15
 Sample Location: BRONX, NY

Date Collected: 09/01/17 14:01
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 08:09

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/08/17 20:00
 Analyst: SZ
 Percent Solids: 98%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	19	J	ug/kg	130	17.	1
Benzidine	ND		ug/kg	550	180	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	30.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	29.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Azobenzene	ND		ug/kg	170	16.	1
Fluoranthene	260		ug/kg	100	19.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	480	150	1
Hexachloroethane	ND		ug/kg	130	27.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	20.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	130	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.	1
Butyl benzyl phthalate	ND		ug/kg	170	42.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	57.	1



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-09
 Client ID: WC04N_COMP_10-15
 Sample Location: BRONX, NY

Date Collected: 09/01/17 14:01
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	35.	1
Benzo(a)anthracene	110		ug/kg	100	19.	1
Benzo(a)pyrene	90	J	ug/kg	130	41.	1
Benzo(b)fluoranthene	120		ug/kg	100	28.	1
Benzo(k)fluoranthene	47	J	ug/kg	100	27.	1
Chrysene	110		ug/kg	100	17.	1
Acenaphthylene	ND		ug/kg	130	26.	1
Anthracene	40	J	ug/kg	100	33.	1
Benzo(ghi)perylene	59	J	ug/kg	130	20.	1
Fluorene	17	J	ug/kg	170	16.	1
Phenanthrene	230		ug/kg	100	20.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.	1
Indeno(1,2,3-cd)pyrene	55	J	ug/kg	130	23.	1
Pyrene	240		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	380	39.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	32.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	70.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
n-Nitrosodimethylamine	ND		ug/kg	340	32.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	55.	1
2-Nitrophenol	ND		ug/kg	360	63.	1
4-Nitrophenol	ND		ug/kg	240	69.	1
2,4-Dinitrophenol	ND		ug/kg	810	78.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	81.	1
Pentachlorophenol	ND		ug/kg	130	37.	1
Phenol	ND		ug/kg	170	25.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	32.	1



Project Name: 414 GERARD AVE**Lab Number:** L1731032**Project Number:** 170488401**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731032-09
 Client ID: WC04N_COMP_10-15
 Sample Location: BRONX, NY

Date Collected: 09/01/17 14:01
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzoic Acid	ND		ug/kg	540	170	1
Benzyl Alcohol	ND		ug/kg	170	51.	1
Carbazole	22	J	ug/kg	170	16.	1
Atrazine	ND		ug/kg	130	59.	1
Benzaldehyde	ND		ug/kg	220	45.	1
Caprolactam	ND		ug/kg	170	51.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	34.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	75		18-120

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-10
Client ID: WCFB01_090117
Sample Location: BRONX, NY

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 09/07/17 11:16
Analyst: RC

Date Collected: 09/01/17 14:15
Date Received: 09/01/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 09/03/17 19:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	0.59	1
Benzidine	ND		ug/l	20	8.1	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Hexachlorobenzene	ND		ug/l	2.0	0.58	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
2-Chloronaphthalene	ND		ug/l	2.0	0.64	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
Azobenzene	ND		ug/l	2.0	0.75	1
Fluoranthene	ND		ug/l	2.0	0.57	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorobutadiene	ND		ug/l	2.0	0.72	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Hexachloroethane	ND		ug/l	2.0	0.68	1
Isophorone	ND		ug/l	5.0	0.60	1
Naphthalene	ND		ug/l	2.0	0.68	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-10
 Client ID: WCFB01_090117
 Sample Location: BRONX, NY

Date Collected: 09/01/17 14:15
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Benzo(a)anthracene	ND		ug/l	2.0	0.61	1
Benzo(a)pyrene	ND		ug/l	2.0	0.54	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.64	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.60	1
Chrysene	ND		ug/l	2.0	0.54	1
Acenaphthylene	ND		ug/l	2.0	0.66	1
Anthracene	ND		ug/l	2.0	0.64	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.61	1
Fluorene	ND		ug/l	2.0	0.62	1
Phenanthrene	ND		ug/l	2.0	0.61	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.55	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.71	1
Pyrene	ND		ug/l	2.0	0.57	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
2-Methylnaphthalene	ND		ug/l	2.0	0.72	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
n-Nitrosodimethylamine	ND		ug/l	2.0	0.67	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Pentachlorophenol	ND		ug/l	10	3.4	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-10
Client ID: WCFB01_090117
Sample Location: BRONX, NY

Date Collected: 09/01/17 14:15
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1
Atrazine	ND		ug/l	10	1.8	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	3.6	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.93	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	76		10-120
4-Terphenyl-d14	74		41-149

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/05/17 20:01
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 09/02/17 21:01

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1038218-1					
Acenaphthene	ND		ug/l	2.0	0.59
Benzidine	ND		ug/l	20	8.1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66
Hexachlorobenzene	ND		ug/l	2.0	0.58
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67
2-Chloronaphthalene	ND		ug/l	2.0	0.64
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1
Azobenzene	ND		ug/l	2.0	0.75
Fluoranthene	ND		ug/l	2.0	0.57
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63
Hexachlorobutadiene	ND		ug/l	2.0	0.72
Hexachlorocyclopentadiene	ND		ug/l	20	7.8
Hexachloroethane	ND		ug/l	2.0	0.68
Isophorone	ND		ug/l	5.0	0.60
Naphthalene	ND		ug/l	2.0	0.68
Nitrobenzene	ND		ug/l	2.0	0.75
NDPA/DPA	ND		ug/l	2.0	0.64
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91
Butyl benzyl phthalate	ND		ug/l	5.0	1.3
Di-n-butylphthalate	ND		ug/l	5.0	0.69



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/05/17 20:01
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 09/02/17 21:01

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1038218-1					
Di-n-octylphthalate	ND		ug/l	5.0	1.1
Diethyl phthalate	ND		ug/l	5.0	0.63
Dimethyl phthalate	ND		ug/l	5.0	0.65
Benzo(a)anthracene	ND		ug/l	2.0	0.61
Benzo(a)pyrene	ND		ug/l	2.0	0.54
Benzo(b)fluoranthene	ND		ug/l	2.0	0.64
Benzo(k)fluoranthene	ND		ug/l	2.0	0.60
Chrysene	ND		ug/l	2.0	0.54
Acenaphthylene	ND		ug/l	2.0	0.66
Anthracene	ND		ug/l	2.0	0.64
Benzo(ghi)perylene	ND		ug/l	2.0	0.61
Fluorene	ND		ug/l	2.0	0.62
Phenanthrene	ND		ug/l	2.0	0.61
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.55
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.71
Pyrene	ND		ug/l	2.0	0.57
Biphenyl	ND		ug/l	2.0	0.76
4-Chloroaniline	ND		ug/l	5.0	0.63
2-Nitroaniline	ND		ug/l	5.0	1.1
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.3
Dibenzofuran	ND		ug/l	2.0	0.66
2-Methylnaphthalene	ND		ug/l	2.0	0.72
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67
Acetophenone	ND		ug/l	5.0	0.85
n-Nitrosodimethylamine	ND		ug/l	2.0	0.67
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68
p-Chloro-m-cresol	ND		ug/l	2.0	0.62
2-Chlorophenol	ND		ug/l	2.0	0.63



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/05/17 20:01
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 09/02/17 21:01

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1038218-1					
2,4-Dichlorophenol	ND		ug/l	5.0	0.77
2,4-Dimethylphenol	ND		ug/l	5.0	1.6
2-Nitrophenol	ND		ug/l	10	1.5
4-Nitrophenol	ND		ug/l	10	1.8
2,4-Dinitrophenol	ND		ug/l	20	5.5
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1
Pentachlorophenol	ND		ug/l	10	3.4
Phenol	ND		ug/l	5.0	1.9
2-Methylphenol	ND		ug/l	5.0	1.0
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72
Benzoic Acid	ND		ug/l	50	13.
Benzyl Alcohol	ND		ug/l	2.0	0.72
Carbazole	ND		ug/l	2.0	0.63
Atrazine	ND		ug/l	10	1.8
Benzaldehyde	ND		ug/l	5.0	1.1
Caprolactam	ND		ug/l	10	3.6
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.93

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: 414 GERARD AVE**Lab Number:** L1731032**Project Number:** 170488401**Report Date:** 09/13/17**Method Blank Analysis
Batch Quality Control**Analytical Method: 1,8270D
Analytical Date: 09/05/17 20:01
Analyst: HLExtraction Method: EPA 3510C
Extraction Date: 09/02/17 21:01

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1038218-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	65		10-120
4-Terphenyl-d14	68		41-149

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/08/17 15:37
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 09/04/17 02:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1038307-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	530	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	140	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	97	18.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	140	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	140	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/08/17 15:37
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 09/04/17 02:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1038307-1					
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	39.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	22.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	29.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	30.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	320	31.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/08/17 15:37
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 09/04/17 02:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1038307-1					
2,4-Dichlorophenol	ND		ug/kg	140	26.
2,4-Dimethylphenol	ND		ug/kg	160	53.
2-Nitrophenol	ND		ug/kg	350	61.
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	75.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	210	44.
Caprolactam	ND		ug/kg	160	49.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg



Project Name: 414 GERARD AVE**Lab Number:** L1731032**Project Number:** 170488401**Report Date:** 09/13/17**Method Blank Analysis
Batch Quality Control**Analytical Method: 1,8270D
Analytical Date: 09/08/17 15:37
Analyst: SZExtraction Method: EPA 3546
Extraction Date: 09/04/17 02:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1038307-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	82		18-120

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/07/17 21:14
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 09/04/17 08:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,08 Batch: WG1038317-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	540	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	97	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/07/17 21:14
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 09/04/17 08:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,08 Batch: WG1038317-1					
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	320	31.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/07/17 21:14
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 09/04/17 08:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,08 Batch: WG1038317-1					
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	210	44.
Caprolactam	ND		ug/kg	160	49.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	70		18-120



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/07/17 10:33
Analyst: HL
TCLP/SPLP Extraction Date: 09/04/17 21:37

Extraction Method: EPA 3510C
Extraction Date: 09/05/17 17:15

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 07 Batch: WG1038639-1					
Hexachlorobenzene	ND		ug/l	10	2.9
2,4-Dinitrotoluene	ND		ug/l	25	4.2
Hexachlorobutadiene	ND		ug/l	10	3.6
Hexachloroethane	ND		ug/l	10	3.4
Nitrobenzene	ND		ug/l	10	3.8
2,4,6-Trichlorophenol	ND		ug/l	25	3.4
Pentachlorophenol	ND		ug/l	50	17.
2-Methylphenol	ND		ug/l	25	5.1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	5.6
2,4,5-Trichlorophenol	ND		ug/l	25	3.6
Pyridine	ND		ug/l	18	9.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	92		21-120
Phenol-d6	81		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	83		10-120
4-Terphenyl-d14	85		33-120



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/11/17 20:56
Analyst: MW

Extraction Method: EPA 3546
Extraction Date: 09/11/17 10:33

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,07 Batch: WG1040317-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	540	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/11/17 20:56
Analyst: MW

Extraction Method: EPA 3546
Extraction Date: 09/11/17 10:33

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,07 Batch: WG1040317-1					
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	330	32.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/11/17 20:56
Analyst: MW

Extraction Method: EPA 3546
Extraction Date: 09/11/17 10:33

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,07 Batch: WG1040317-1					
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	84		18-120



Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1038218-2 WG1038218-3								
Acenaphthene	56		52		37-111	7		30
Benzidine	23		31		10-75	30		30
1,2,4-Trichlorobenzene	46		44		39-98	4		30
Hexachlorobenzene	65		60		40-140	8		30
Bis(2-chloroethyl)ether	61		57		40-140	7		30
2-Chloronaphthalene	53		51		40-140	4		30
1,2-Dichlorobenzene	44		43		40-140	2		30
1,3-Dichlorobenzene	43		42		40-140	2		30
1,4-Dichlorobenzene	44		42		36-97	5		30
3,3'-Dichlorobenzidine	53		49		40-140	8		30
2,4-Dinitrotoluene	76		70		48-143	8		30
2,6-Dinitrotoluene	75		70		40-140	7		30
Azobenzene	75		69		40-140	8		30
Fluoranthene	66		62		40-140	6		30
4-Chlorophenyl phenyl ether	62		57		40-140	8		30
4-Bromophenyl phenyl ether	67		62		40-140	8		30
Bis(2-chloroisopropyl)ether	56		51		40-140	9		30
Bis(2-chloroethoxy)methane	69		63		40-140	9		30
Hexachlorobutadiene	42		40		40-140	5		30
Hexachlorocyclopentadiene	38	Q	37	Q	40-140	3		30
Hexachloroethane	42		41		40-140	2		30
Isophorone	74		68		40-140	8		30
Naphthalene	49		47		40-140	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1038218-2 WG1038218-3								
Nitrobenzene	69		63		40-140	9		30
NDPA/DPA	69		64		40-140	8		30
n-Nitrosodi-n-propylamine	74		68		29-132	8		30
Bis(2-ethylhexyl)phthalate	58		53		40-140	9		30
Butyl benzyl phthalate	69		65		40-140	6		30
Di-n-butylphthalate	70		65		40-140	7		30
Di-n-octylphthalate	60		56		40-140	7		30
Diethyl phthalate	71		66		40-140	7		30
Dimethyl phthalate	72		67		40-140	7		30
Benzo(a)anthracene	59		55		40-140	7		30
Benzo(a)pyrene	57		55		40-140	4		30
Benzo(b)fluoranthene	58		56		40-140	4		30
Benzo(k)fluoranthene	58		55		40-140	5		30
Chrysene	56		53		40-140	6		30
Acenaphthylene	62		59		45-123	5		30
Anthracene	63		58		40-140	8		30
Benzo(ghi)perylene	50		49		40-140	2		30
Fluorene	64		60		40-140	6		30
Phenanthrene	60		56		40-140	7		30
Dibenzo(a,h)anthracene	54		52		40-140	4		30
Indeno(1,2,3-cd)pyrene	55		53		40-140	4		30
Pyrene	66		62		26-127	6		30
Biphenyl	59		55		40-140	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1038218-2 WG1038218-3								
4-Chloroaniline	50		48		40-140	4		30
2-Nitroaniline	76		70		52-143	8		30
3-Nitroaniline	60		57		25-145	5		30
4-Nitroaniline	67		62		51-143	8		30
Dibenzofuran	61		57		40-140	7		30
2-Methylnaphthalene	52		49		40-140	6		30
1,2,4,5-Tetrachlorobenzene	52		50		2-134	4		30
Acetophenone	69		63		39-129	9		30
n-Nitrosodimethylamine	36		35		22-74	3		30
2,4,6-Trichlorophenol	70		64		30-130	9		30
p-Chloro-m-cresol	74		70		23-97	6		30
2-Chlorophenol	60		55		27-123	9		30
2,4-Dichlorophenol	70		65		30-130	7		30
2,4-Dimethylphenol	75		74		30-130	1		30
2-Nitrophenol	68		64		30-130	6		30
4-Nitrophenol	50		48		10-80	4		30
2,4-Dinitrophenol	63		58		20-130	8		30
4,6-Dinitro-o-cresol	73		67		20-164	9		30
Pentachlorophenol	60		59		9-103	2		30
Phenol	37		35		12-110	6		30
2-Methylphenol	62		58		30-130	7		30
3-Methylphenol/4-Methylphenol	62		59		30-130	5		30
2,4,5-Trichlorophenol	72		67		30-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1038218-2 WG1038218-3								
Benzoic Acid	16		19		10-164	17		30
Benzyl Alcohol	61		58		26-116	5		30
Carbazole	66		61		55-144	8		30
Atrazine	87		81		40-140	7		30
Benzaldehyde	53		49		40-140	8		30
Caprolactam	20		19		10-130	5		30
2,3,4,6-Tetrachlorophenol	69		65		40-140	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	49		46		21-120
Phenol-d6	40		37		10-120
Nitrobenzene-d5	76		70		23-120
2-Fluorobiphenyl	70		64		15-120
2,4,6-Tribromophenol	76		71		10-120
4-Terphenyl-d14	72		67		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1038307-2 WG1038307-3								
Acenaphthene	81		82		31-137	1		50
Benzidine	41		36		10-66	13		50
1,2,4-Trichlorobenzene	76		75		38-107	1		50
Hexachlorobenzene	86		86		40-140	0		50
Bis(2-chloroethyl)ether	80		80		40-140	0		50
2-Chloronaphthalene	74		76		40-140	3		50
1,2-Dichlorobenzene	74		75		40-140	1		50
1,3-Dichlorobenzene	73		74		40-140	1		50
1,4-Dichlorobenzene	73		73		28-104	0		50
3,3'-Dichlorobenzidine	66		65		40-140	2		50
2,4-Dinitrotoluene	101		99		40-132	2		50
2,6-Dinitrotoluene	87		89		40-140	2		50
Azobenzene	80		81		40-140	1		50
Fluoranthene	82		83		40-140	1		50
4-Chlorophenyl phenyl ether	84		84		40-140	0		50
4-Bromophenyl phenyl ether	84		86		40-140	2		50
Bis(2-chloroisopropyl)ether	77		77		40-140	0		50
Bis(2-chloroethoxy)methane	82		83		40-117	1		50
Hexachlorobutadiene	75		75		40-140	0		50
Hexachlorocyclopentadiene	55		57		40-140	4		50
Hexachloroethane	77		79		40-140	3		50
Isophorone	74		74		40-140	0		50
Naphthalene	78		78		40-140	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1038307-2 WG1038307-3								
Nitrobenzene	83		82		40-140	1		50
NDPA/DPA	81		84		36-157	4		50
n-Nitrosodi-n-propylamine	72		74		32-121	3		50
Bis(2-ethylhexyl)phthalate	87		88		40-140	1		50
Butyl benzyl phthalate	88		89		40-140	1		50
Di-n-butylphthalate	88		89		40-140	1		50
Di-n-octylphthalate	90		91		40-140	1		50
Diethyl phthalate	86		86		40-140	0		50
Dimethyl phthalate	74		75		40-140	1		50
Benzo(a)anthracene	82		83		40-140	1		50
Benzo(a)pyrene	88		86		40-140	2		50
Benzo(b)fluoranthene	86		85		40-140	1		50
Benzo(k)fluoranthene	92		90		40-140	2		50
Chrysene	86		85		40-140	1		50
Acenaphthylene	75		76		40-140	1		50
Anthracene	82		82		40-140	0		50
Benzo(ghi)perylene	83		85		40-140	2		50
Fluorene	82		83		40-140	1		50
Phenanthrene	83		84		40-140	1		50
Dibenzo(a,h)anthracene	84		86		40-140	2		50
Indeno(1,2,3-cd)pyrene	82		83		40-140	1		50
Pyrene	83		83		35-142	0		50
Biphenyl	82		84		54-104	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1038307-2 WG1038307-3								
4-Chloroaniline	45		45		40-140	0		50
2-Nitroaniline	87		91		47-134	4		50
3-Nitroaniline	84		82		26-129	2		50
4-Nitroaniline	100		98		41-125	2		50
Dibenzofuran	82		81		40-140	1		50
2-Methylnaphthalene	74		74		40-140	0		50
1,2,4,5-Tetrachlorobenzene	81		84		40-117	4		50
Acetophenone	86		88		14-144	2		50
n-Nitrosodimethylamine	68		70		22-100	3		50
2,4,6-Trichlorophenol	76		77		30-130	1		50
p-Chloro-m-cresol	81		83		26-103	2		50
2-Chlorophenol	88		89		25-102	1		50
2,4-Dichlorophenol	84		83		30-130	1		50
2,4-Dimethylphenol	86		85		30-130	1		50
2-Nitrophenol	94		94		30-130	0		50
4-Nitrophenol	90		88		11-114	2		50
2,4-Dinitrophenol	54		58		4-130	7		50
4,6-Dinitro-o-cresol	95		97		10-130	2		50
Pentachlorophenol	74		74		17-109	0		50
Phenol	82		82		26-90	0		50
2-Methylphenol	85		86		30-130	1		50
3-Methylphenol/4-Methylphenol	85		86		30-130	1		50
2,4,5-Trichlorophenol	80		80		30-130	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1038307-2 WG1038307-3								
Benzoic Acid	7	Q	10		10-110	38		50
Benzyl Alcohol	82		82		40-140	0		50
Carbazole	83		83		54-128	0		50
Atrazine	82		82		40-140	0		50
Benzaldehyde	75		75		40-140	0		50
Caprolactam	80		84		15-130	5		50
2,3,4,6-Tetrachlorophenol	86		86		40-140	0		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	86		86		25-120
Phenol-d6	81		82		10-120
Nitrobenzene-d5	82		82		23-120
2-Fluorobiphenyl	73		73		30-120
2,4,6-Tribromophenol	88		88		10-136
4-Terphenyl-d14	84		84		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,08 Batch: WG1038317-2 WG1038317-3								
Acenaphthene	62		60		31-137	3		50
Benzidine	32		24		10-66	29		50
1,2,4-Trichlorobenzene	64		60		38-107	6		50
Hexachlorobenzene	63		61		40-140	3		50
Bis(2-chloroethyl)ether	66		62		40-140	6		50
2-Chloronaphthalene	68		65		40-140	5		50
1,2-Dichlorobenzene	63		59		40-140	7		50
1,3-Dichlorobenzene	60		56		40-140	7		50
1,4-Dichlorobenzene	61		56		28-104	9		50
3,3'-Dichlorobenzidine	57		51		40-140	11		50
2,4-Dinitrotoluene	79		75		40-132	5		50
2,6-Dinitrotoluene	76		74		40-140	3		50
Azobenzene	76		73		40-140	4		50
Fluoranthene	69		65		40-140	6		50
4-Chlorophenyl phenyl ether	63		62		40-140	2		50
4-Bromophenyl phenyl ether	65		61		40-140	6		50
Bis(2-chloroisopropyl)ether	77		72		40-140	7		50
Bis(2-chloroethoxy)methane	70		65		40-117	7		50
Hexachlorobutadiene	60		57		40-140	5		50
Hexachlorocyclopentadiene	40		37	Q	40-140	8		50
Hexachloroethane	66		63		40-140	5		50
Isophorone	73		69		40-140	6		50
Naphthalene	63		61		40-140	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,08 Batch: WG1038317-2 WG1038317-3								
Nitrobenzene	74		70		40-140	6		50
NDPA/DPA	69		67		36-157	3		50
n-Nitrosodi-n-propylamine	74		70		32-121	6		50
Bis(2-ethylhexyl)phthalate	84		79		40-140	6		50
Butyl benzyl phthalate	83		78		40-140	6		50
Di-n-butylphthalate	75		72		40-140	4		50
Di-n-octylphthalate	84		80		40-140	5		50
Diethyl phthalate	74		70		40-140	6		50
Dimethyl phthalate	70		68		40-140	3		50
Benzo(a)anthracene	71		67		40-140	6		50
Benzo(a)pyrene	76		72		40-140	5		50
Benzo(b)fluoranthene	74		74		40-140	0		50
Benzo(k)fluoranthene	72		64		40-140	12		50
Chrysene	67		64		40-140	5		50
Acenaphthylene	70		69		40-140	1		50
Anthracene	69		64		40-140	8		50
Benzo(ghi)perylene	73		71		40-140	3		50
Fluorene	68		65		40-140	5		50
Phenanthrene	66		62		40-140	6		50
Dibenzo(a,h)anthracene	71		71		40-140	0		50
Indeno(1,2,3-cd)pyrene	77		76		40-140	1		50
Pyrene	69		64		35-142	8		50
Biphenyl	69		67		54-104	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,08 Batch: WG1038317-2 WG1038317-3								
4-Chloroaniline	46		53		40-140	14		50
2-Nitroaniline	83		81		47-134	2		50
3-Nitroaniline	64		59		26-129	8		50
4-Nitroaniline	68		65		41-125	5		50
Dibenzofuran	66		62		40-140	6		50
2-Methylnaphthalene	66		64		40-140	3		50
1,2,4,5-Tetrachlorobenzene	64		63		40-117	2		50
Acetophenone	72		67		14-144	7		50
n-Nitrosodimethylamine	61		57		22-100	7		50
2,4,6-Trichlorophenol	74		73		30-130	1		50
p-Chloro-m-cresol	80		79		26-103	1		50
2-Chlorophenol	74		69		25-102	7		50
2,4-Dichlorophenol	78		74		30-130	5		50
2,4-Dimethylphenol	78		74		30-130	5		50
2-Nitrophenol	78		73		30-130	7		50
4-Nitrophenol	92		87		11-114	6		50
2,4-Dinitrophenol	52		48		4-130	8		50
4,6-Dinitro-o-cresol	73		68		10-130	7		50
Pentachlorophenol	58		55		17-109	5		50
Phenol	79		74		26-90	7		50
2-Methylphenol	76		72		30-130.	5		50
3-Methylphenol/4-Methylphenol	78		73		30-130	7		50
2,4,5-Trichlorophenol	73		73		30-130	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Project Number: 170488401

Lab Number: L1731032

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,08 Batch: WG1038317-2 WG1038317-3								
Benzoic Acid	13		12		10-110	8		50
Benzyl Alcohol	78		73		40-140	7		50
Carbazole	72		67		54-128	7		50
Atrazine	74		68		40-140	8		50
Benzaldehyde	56		54		40-140	4		50
Caprolactam	98		95		15-130	3		50
2,3,4,6-Tetrachlorophenol	69		65		40-140	6		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		70		25-120
Phenol-d6	79		73		10-120
Nitrobenzene-d5	75		69		23-120
2-Fluorobiphenyl	67		65		30-120
2,4,6-Tribromophenol	76		72		10-136
4-Terphenyl-d14	65		61		18-120

Lab Control Sample Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 07 Batch: WG1038639-2 WG1038639-3								
Hexachlorobenzene	73		93		40-140	24		30
2,4-Dinitrotoluene	79		98		40-132	21		30
Hexachlorobutadiene	63		76		28-111	19		30
Hexachloroethane	59		72		21-105	20		30
Nitrobenzene	80		99		40-140	21		30
2,4,6-Trichlorophenol	76		94		30-130	21		30
Pentachlorophenol	75		95		9-103	24		30
2-Methylphenol	77		96		30-130	22		30
3-Methylphenol/4-Methylphenol	83		105		30-130	23		30
2,4,5-Trichlorophenol	89		112		30-130	23		30
Pyridine	49		58		10-66	17		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	82		100		21-120
Phenol-d6	74		93		10-120
Nitrobenzene-d5	81		101		23-120
2-Fluorobiphenyl	72		88		15-120
2,4,6-Tribromophenol	77		95		10-120
4-Terphenyl-d14	77		96		33-120



Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,07 Batch: WG1040317-2 WG1040317-3								
Acenaphthene	77		78		31-137	1		50
Benzidine	42		44		10-66	5		50
1,2,4-Trichlorobenzene	74		74		38-107	0		50
Hexachlorobenzene	83		82		40-140	1		50
Bis(2-chloroethyl)ether	80		84		40-140	5		50
2-Chloronaphthalene	75		77		40-140	3		50
1,2-Dichlorobenzene	75		75		40-140	0		50
1,3-Dichlorobenzene	74		74		40-140	0		50
1,4-Dichlorobenzene	74		74		28-104	0		50
3,3'-Dichlorobenzidine	67		67		40-140	0		50
2,4-Dinitrotoluene	98		99		40-132	1		50
2,6-Dinitrotoluene	88		92		40-140	4		50
Azobenzene	86		87		40-140	1		50
Fluoranthene	79		80		40-140	1		50
4-Chlorophenyl phenyl ether	82		82		40-140	0		50
4-Bromophenyl phenyl ether	81		82		40-140	1		50
Bis(2-chloroisopropyl)ether	85		85		40-140	0		50
Bis(2-chloroethoxy)methane	84		84		40-117	0		50
Hexachlorobutadiene	71		73		40-140	3		50
Hexachlorocyclopentadiene	68		71		40-140	4		50
Hexachloroethane	78		78		40-140	0		50
Isophorone	81		81		40-140	0		50
Naphthalene	79		80		40-140	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,07 Batch: WG1040317-2 WG1040317-3								
Nitrobenzene	88		89		40-140	1		50
NDPA/DPA	79		80		36-157	1		50
n-Nitrosodi-n-propylamine	80		80		32-121	0		50
Bis(2-ethylhexyl)phthalate	84		86		40-140	2		50
Butyl benzyl phthalate	85		84		40-140	1		50
Di-n-butylphthalate	84		84		40-140	0		50
Di-n-octylphthalate	88		87		40-140	1		50
Diethyl phthalate	83		84		40-140	1		50
Dimethyl phthalate	75		77		40-140	3		50
Benzo(a)anthracene	80		81		40-140	1		50
Benzo(a)pyrene	86		84		40-140	2		50
Benzo(b)fluoranthene	83		83		40-140	0		50
Benzo(k)fluoranthene	87		88		40-140	1		50
Chrysene	82		82		40-140	0		50
Acenaphthylene	77		79		40-140	3		50
Anthracene	79		80		40-140	1		50
Benzo(ghi)perylene	84		83		40-140	1		50
Fluorene	78		79		40-140	1		50
Phenanthrene	78		78		40-140	0		50
Dibenzo(a,h)anthracene	83		83		40-140	0		50
Indeno(1,2,3-cd)pyrene	82		81		40-140	1		50
Pyrene	78		79		35-142	1		50
Biphenyl	80		82		54-104	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,07 Batch: WG1040317-2 WG1040317-3								
4-Chloroaniline	66		72		40-140	9		50
2-Nitroaniline	91		93		47-134	2		50
3-Nitroaniline	79		83		26-129	5		50
4-Nitroaniline	95		94		41-125	1		50
Dibenzofuran	79		80		40-140	1		50
2-Methylnaphthalene	74		75		40-140	1		50
1,2,4,5-Tetrachlorobenzene	80		85		40-117	6		50
Acetophenone	89		89		14-144	0		50
n-Nitrosodimethylamine	80		78		22-100	3		50
2,4,6-Trichlorophenol	78		78		30-130	0		50
p-Chloro-m-cresol	86		87		26-103	1		50
2-Chlorophenol	87		88		25-102	1		50
2,4-Dichlorophenol	83		82		30-130	1		50
2,4-Dimethylphenol	89		87		30-130	2		50
2-Nitrophenol	90		92		30-130	2		50
4-Nitrophenol	97		98		11-114	1		50
2,4-Dinitrophenol	57		58		4-130	2		50
4,6-Dinitro-o-cresol	91		93		10-130	2		50
Pentachlorophenol	71		73		17-109	3		50
Phenol	87		87		26-90	0		50
2-Methylphenol	88		89		30-130.	1		50
3-Methylphenol/4-Methylphenol	88		88		30-130	0		50
2,4,5-Trichlorophenol	79		81		30-130	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Project Number: 170488401

Lab Number: L1731032

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,07 Batch: WG1040317-2 WG1040317-3								
Benzoic Acid	4	Q	2	Q	10-110	58	Q	50
Benzyl Alcohol	92		90		40-140	2		50
Carbazole	80		80		54-128	0		50
Atrazine	80		80		40-140	0		50
Benzaldehyde	83		83		40-140	0		50
Caprolactam	99		100		15-130	1		50
2,3,4,6-Tetrachlorophenol	80		82		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	88		87		25-120
Phenol-d6	84		84		10-120
Nitrobenzene-d5	87		88		23-120
2-Fluorobiphenyl	71		72		30-120
2,4,6-Tribromophenol	79		80		10-136
4-Terphenyl-d14	79		79		18-120

PETROLEUM HYDROCARBONS

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-04
 Client ID: WCB9_0-2
 Sample Location: BRONX, NY
 Matrix: Soil
 Analytical Method: 103,NJDEP EPH
 Analytical Date: 09/05/17 22:36
 Analyst: DG
 Percent Solids: 97%

Date Collected: 09/01/17 13:35
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 08:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
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Total EPH	49.7		mg/kg	23.8	23.8	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	85		40-140
o-Terphenyl	86		40-140

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-05
 Client ID: WCB11_10-12
 Sample Location: BRONX, NY
 Matrix: Soil
 Analytical Method: 103,NJDEP EPH
 Analytical Date: 09/05/17 23:07
 Analyst: DG
 Percent Solids: 98%

Date Collected: 09/01/17 13:25
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 08:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
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Total EPH	ND		mg/kg	24.1	24.1	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	87		40-140
o-Terphenyl	88		40-140

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-06
 Client ID: WCB12_26-28
 Sample Location: BRONX, NY
 Matrix: Soil
 Analytical Method: 103,NJDEP EPH
 Analytical Date: 09/05/17 23:38
 Analyst: DG
 Percent Solids: 92%

Date Collected: 09/01/17 13:10
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 08:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
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Total EPH	ND		mg/kg	24.8	24.8	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	86		40-140
o-Terphenyl	88		40-140

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-32
 Client ID: WCB8_5-7
 Sample Location: BRONX, NY
 Matrix: Soil
 Analytical Method: 103,NJDEP EPH
 Analytical Date: 09/06/17 18:32
 Analyst: DG
 Percent Solids: 99%

Date Collected: 09/01/17 13:55
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/06/17 05:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
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Total EPH	ND		mg/kg	23.5	23.5	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	83		40-140
o-Terphenyl	85		40-140

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-33
 Client ID: WCB8_13-15
 Sample Location: BRONX, NY
 Matrix: Soil
 Analytical Method: 103,NJDEP EPH
 Analytical Date: 09/06/17 18:02
 Analyst: DG
 Percent Solids: 99%

Date Collected: 09/01/17 14:00
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/06/17 05:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
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Total EPH	ND		mg/kg	24.0	24.0	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	75		40-140
o-Terphenyl	73		40-140

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-34
 Client ID: WCB10_0-2
 Sample Location: BRONX, NY
 Matrix: Soil
 Analytical Method: 103,NJDEP EPH
 Analytical Date: 09/06/17 19:34
 Analyst: DG
 Percent Solids: 95%

Date Collected: 09/01/17 13:45
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/06/17 05:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
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Total EPH	542		mg/kg	25.0	25.0	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	50		40-140
o-Terphenyl	50		40-140

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 103,NJDEP EPH

Extraction Method: EPA 3546

Analytical Date: 09/05/17 14:50

Extraction Date: 09/04/17 08:15

Analyst: MEO

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 04-06 Batch: WG1038318-1					
Total EPH	ND		mg/kg	23.9	23.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	83		40-140
o-Terphenyl	85		40-140

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 103,NJDEP EPH

Extraction Method: EPA 3546

Analytical Date: 09/06/17 14:55

Extraction Date: 09/05/17 20:11

Analyst: MEO

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 32-34 Batch: WG1038686-1					
Total EPH	ND		mg/kg	22.6	22.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	78		40-140
o-Terphenyl	79		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 04-06 Batch: WG1038318-2 WG1038318-3								
Total EPH	94		88		40-140	7		25
Nonane (C9)	83		75		40-140	10		25
Decane (C10)	88		81		40-140	8		25
Dodecane (C12)	90		82		40-140	9		25
Tetradecane (C14)	90		82		40-140	9		25
Hexadecane (C16)	90		85		40-140	6		25
Octadecane (C18)	91		87		40-140	4		25
Eicosane (C20)	90		86		40-140	5		25
Heneicosane (C21)	91		87		40-140	4		25
Docosane (C22)	90		86		40-140	5		25
Tetracosane (C24)	90		86		40-140	5		25
Hexacosane (C26)	89		85		40-140	5		25
Octacosane (C28)	87		84		40-140	4		25
triacontane (C30)	86		82		40-140	5		25
Dotriacontane (C32)	86		82		40-140	5		25
Tetracontane (C34)	82		79		40-140	4		25
Hexatriacontane (C36)	84		80		40-140	5		25
Octatriacontane (C38)	90		81		40-140	11		25
Tetracontane (C40)	85		81		40-140	5		25

Lab Control Sample Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 04-06 Batch: WG1038318-2 WG1038318-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
Chloro-Octadecane	88		82		40-140
o-Terphenyl	91		84		40-140



Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 32-34 Batch: WG1038686-2 WG1038686-3								
Total EPH	92		89		40-140	3		25
Nonane (C9)	71		71		40-140	0		25
Decane (C10)	77		76		40-140	1		25
Dodecane (C12)	79		75		40-140	5		25
Tetradecane (C14)	80		75		40-140	6		25
Hexadecane (C16)	85		78		40-140	9		25
Octadecane (C18)	89		82		40-140	8		25
Eicosane (C20)	89		83		40-140	7		25
Heneicosane (C21)	90		84		40-140	7		25
Docosane (C22)	90		84		40-140	7		25
Tetracosane (C24)	91		84		40-140	8		25
Hexacosane (C26)	90		83		40-140	8		25
Octacosane (C28)	88		81		40-140	8		25
triacontane (C30)	87		81		40-140	7		25
Dotriacontane (C32)	87		80		40-140	8		25
Tetratriacontane (C34)	84		78		40-140	7		25
Hexatriacontane (C36)	89		80		40-140	11		25
Octatriacontane (C38)	89		82		40-140	8		25
Tetracontane (C40)	90		82		40-140	9		25

Lab Control Sample Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 32-34 Batch: WG1038686-2 WG1038686-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
Chloro-Octadecane	77		70		40-140
o-Terphenyl	79		73		40-140



Matrix Spike Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab MS Sample Associated sample(s): 04-06 QC Batch ID: WG1038318-4 QC Sample: L1730974-02 Client ID:												
Total EPH	121	266	428	115		-	-		40-140	-		50
Nonane (C9)	ND	7.39	7.58	103		-	-		40-140	-		50
Decane (C10)	ND	7.39	8.10	110		-	-		40-140	-		50
Dodecane (C12)	ND	7.39	8.43	114		-	-		40-140	-		50
Tetradecane (C14)	ND	7.39	8.84	120		-	-		40-140	-		50
Hexadecane (C16)	ND	7.39	8.57	116		-	-		40-140	-		50
Octadecane (C18)	ND	7.39	8.35	113		-	-		40-140	-		50
Eicosane (C20)	ND	7.39	8.23	111		-	-		40-140	-		50
Heneicosane (C21)	ND	7.39	8.26	112		-	-		40-140	-		50
Docosane (C22)	ND	7.39	8.19	111		-	-		40-140	-		50
Tetracosane (C24)	ND	7.39	8.16	110		-	-		40-140	-		50
Hexacosane (C26)	ND	7.39	8.09	109		-	-		40-140	-		50
Octacosane (C28)	ND	7.39	7.90	107		-	-		40-140	-		50
Triacontane (C30)	ND	7.39	7.79	105		-	-		40-140	-		50
Dotriacontane (C32)	ND	7.39	7.72	104		-	-		40-140	-		50
Tetracontane (C34)	ND	7.39	7.40	100		-	-		40-140	-		50
Hexatriacontane (C36)	ND	7.39	7.49	101		-	-		40-140	-		50
Octatriacontane (C38)	ND	7.39	7.55	102		-	-		40-140	-		50
Tetracontane (C40)	ND	7.39	7.62	103		-	-		40-140	-		50

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
Chloro-Octadecane	100				40-140



Matrix Spike Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab MS Sample Associated sample(s): 04-06 QC Batch ID: WG1038318-4 QC Sample: L1730974-02 Client ID:												

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	104				40-140



Matrix Spike Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab MS Sample Associated sample(s): 32-34 QC Batch ID: WG1038686-4 QC Sample: L1731016-05 Client ID:												
Total EPH	ND	261	270	103		-	-		40-140	-		50
Nonane (C9)	ND	7.25	6.24	86		-	-		40-140	-		50
Decane (C10)	ND	7.25	6.69	92		-	-		40-140	-		50
Dodecane (C12)	ND	7.25	6.70	92		-	-		40-140	-		50
Tetradecane (C14)	ND	7.25	6.73	93		-	-		40-140	-		50
Hexadecane (C16)	ND	7.25	6.95	96		-	-		40-140	-		50
Octadecane (C18)	ND	7.25	7.26	100		-	-		40-140	-		50
Eicosane (C20)	ND	7.25	7.30	101		-	-		40-140	-		50
Heneicosane (C21)	ND	7.25	7.40	102		-	-		40-140	-		50
Docosane (C22)	ND	7.25	7.38	102		-	-		40-140	-		50
Tetracosane (C24)	ND	7.25	7.36	102		-	-		40-140	-		50
Hexacosane (C26)	ND	7.25	7.29	101		-	-		40-140	-		50
Octacosane (C28)	ND	7.25	7.14	99		-	-		40-140	-		50
Triacontane (C30)	ND	7.25	7.07	98		-	-		40-140	-		50
Dotriacontane (C32)	ND	7.25	7.05	97		-	-		40-140	-		50
Tetraatriacontane (C34)	ND	7.25	6.85	95		-	-		40-140	-		50
Hexatriacontane (C36)	ND	7.25	7.19	99		-	-		40-140	-		50
Octatriacontane (C38)	ND	7.25	7.22	100		-	-		40-140	-		50
Tetracontane (C40)	ND	7.25	7.29	101		-	-		40-140	-		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Chloro-Octadecane	86				40-140



Matrix Spike Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab MS Sample Associated sample(s): 32-34 QC Batch ID: WG1038686-4 QC Sample: L1731016-05 Client ID:												

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	86				40-140



Lab Duplicate Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 04-06 QC Batch ID: WG1038318-5 QC Sample: L1730974-02 Client ID: DUP Sample						
Total EPH	121	89.2	mg/kg	30		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	98		92		40-140
o-Terphenyl	102		93		40-140



Lab Duplicate Analysis
Batch Quality Control

Project Name: 414 GERARD AVE

Project Number: 170488401

Lab Number: L1731032

Report Date: 09/13/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 32-34 QC Batch ID: WG1038686-5 QC Sample: L1731016-05 Client ID: DUP Sample						
Total EPH	ND	ND	mg/kg	NC		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	83		91		40-140
o-Terphenyl	83		90		40-140



PCBS

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-01
Client ID: WC03A_COMP_0-6
Sample Location: BRONX, NY

Date Collected: 09/01/17 13:31
Date Received: 09/01/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 09/04/17 08:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/04/17
Cleanup Method: EPA 3660B
Cleanup Date: 09/04/17

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/07/17 05:03
Analyst: AF
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.6	3.81	1	A
Aroclor 1221	ND		ug/kg	33.6	5.12	1	A
Aroclor 1232	ND		ug/kg	33.6	3.31	1	A
Aroclor 1242	32.7	J	ug/kg	33.6	4.11	1	A
Aroclor 1248	ND		ug/kg	33.6	3.77	1	A
Aroclor 1254	ND		ug/kg	33.6	2.74	1	A
Aroclor 1260	ND		ug/kg	33.6	3.51	1	A
Aroclor 1262	ND		ug/kg	33.6	2.76	1	A
Aroclor 1268	4.09	J	ug/kg	33.6	2.38	1	A
PCBs, Total	36.8	J	ug/kg	33.6	2.38	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	79		30-150	B



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-02
 Client ID: WC03B_COMP_6-12
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:21
 Date Received: 09/01/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/07/17 05:19
 Analyst: AF
 Percent Solids: 96%

Extraction Method: EPA 3546
 Extraction Date: 09/04/17 08:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/04/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/04/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.7	3.82	1	A
Aroclor 1221	ND		ug/kg	33.7	5.13	1	A
Aroclor 1232	ND		ug/kg	33.7	3.32	1	A
Aroclor 1242	ND		ug/kg	33.7	4.12	1	A
Aroclor 1248	ND		ug/kg	33.7	3.78	1	A
Aroclor 1254	ND		ug/kg	33.7	2.75	1	A
Aroclor 1260	ND		ug/kg	33.7	3.52	1	A
Aroclor 1262	ND		ug/kg	33.7	2.77	1	A
Aroclor 1268	ND		ug/kg	33.7	2.39	1	A
PCBs, Total	ND		ug/kg	33.7	2.39	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	75		30-150	B



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-03
Client ID: WC03N_COMP_12-28
Sample Location: BRONX, NY

Date Collected: 09/01/17 13:15
Date Received: 09/01/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/07/17 05:34
Analyst: AF
Percent Solids: 97%

Extraction Method: EPA 3546
Extraction Date: 09/04/17 08:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/04/17
Cleanup Method: EPA 3660B
Cleanup Date: 09/04/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	32.9	3.73	1	A
Aroclor 1221	ND		ug/kg	32.9	5.00	1	A
Aroclor 1232	ND		ug/kg	32.9	3.24	1	A
Aroclor 1242	ND		ug/kg	32.9	4.02	1	A
Aroclor 1248	ND		ug/kg	32.9	3.69	1	A
Aroclor 1254	ND		ug/kg	32.9	2.68	1	A
Aroclor 1260	ND		ug/kg	32.9	3.43	1	A
Aroclor 1262	ND		ug/kg	32.9	2.70	1	A
Aroclor 1268	ND		ug/kg	32.9	2.33	1	A
PCBs, Total	ND		ug/kg	32.9	2.33	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	102		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-07
Client ID: WC04A_COMP_0-5
Sample Location: BRONX, NY

Date Collected: 09/01/17 13:41
Date Received: 09/01/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 09/04/17 08:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/04/17
Cleanup Method: EPA 3660B
Cleanup Date: 09/04/17

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/07/17 05:49
Analyst: AF
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.1	3.76	1	A
Aroclor 1221	ND		ug/kg	33.1	5.04	1	A
Aroclor 1232	ND		ug/kg	33.1	3.26	1	A
Aroclor 1242	ND		ug/kg	33.1	4.06	1	A
Aroclor 1248	ND		ug/kg	33.1	3.72	1	A
Aroclor 1254	ND		ug/kg	33.1	2.70	1	A
Aroclor 1260	ND		ug/kg	33.1	3.46	1	A
Aroclor 1262	ND		ug/kg	33.1	2.72	1	A
Aroclor 1268	4.77	J	ug/kg	33.1	2.35	1	A
PCBs, Total	4.77	J	ug/kg	33.1	2.35	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	128		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	116		30-150	B



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-08
 Client ID: WC04B_COMP_5-10
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:51
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 08:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/04/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/04/17

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/07/17 06:04
 Analyst: AF
 Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.4	3.79	1	A
Aroclor 1221	ND		ug/kg	33.4	5.09	1	A
Aroclor 1232	ND		ug/kg	33.4	3.29	1	A
Aroclor 1242	ND		ug/kg	33.4	4.09	1	A
Aroclor 1248	ND		ug/kg	33.4	3.75	1	A
Aroclor 1254	ND		ug/kg	33.4	2.73	1	A
Aroclor 1260	ND		ug/kg	33.4	3.49	1	A
Aroclor 1262	ND		ug/kg	33.4	2.75	1	A
Aroclor 1268	ND		ug/kg	33.4	2.37	1	A
PCBs, Total	ND		ug/kg	33.4	2.37	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	92		30-150	B

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-09
 Client ID: WC04N_COMP_10-15
 Sample Location: BRONX, NY

Date Collected: 09/01/17 14:01
 Date Received: 09/01/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/07/17 06:20
 Analyst: AF
 Percent Solids: 98%

Extraction Method: EPA 3546
 Extraction Date: 09/04/17 08:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/04/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/04/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.6	3.81	1	A
Aroclor 1221	ND		ug/kg	33.6	5.11	1	A
Aroclor 1232	ND		ug/kg	33.6	3.30	1	A
Aroclor 1242	ND		ug/kg	33.6	4.11	1	A
Aroclor 1248	ND		ug/kg	33.6	3.77	1	A
Aroclor 1254	ND		ug/kg	33.6	2.74	1	A
Aroclor 1260	ND		ug/kg	33.6	3.51	1	A
Aroclor 1262	ND		ug/kg	33.6	2.76	1	A
Aroclor 1268	ND		ug/kg	33.6	2.38	1	A
PCBs, Total	ND		ug/kg	33.6	2.38	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	102		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	88		30-150	B



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-10
Client ID: WCFB01_090117
Sample Location: BRONX, NY

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 09/06/17 16:02
Analyst: AF

Date Collected: 09/01/17 14:15
Date Received: 09/01/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 09/04/17 07:28
Cleanup Method: EPA 3665A
Cleanup Date: 09/04/17
Cleanup Method: EPA 3660B
Cleanup Date: 09/04/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	32		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	41		30-150	B



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 09/05/17 15:32
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 09/03/17 23:48
Cleanup Method: EPA 3665A
Cleanup Date: 09/04/17
Cleanup Method: EPA 3660B
Cleanup Date: 09/04/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 10 Batch: WG1038295-1						
Aroclor 1016	ND		ug/l	0.083	0.020	A
Aroclor 1221	ND		ug/l	0.083	0.032	A
Aroclor 1232	ND		ug/l	0.083	0.027	A
Aroclor 1242	ND		ug/l	0.083	0.030	A
Aroclor 1248	ND		ug/l	0.083	0.023	A
Aroclor 1254	ND		ug/l	0.083	0.035	A
Aroclor 1260	ND		ug/l	0.083	0.020	A
Aroclor 1262	ND		ug/l	0.083	0.017	A
Aroclor 1268	ND		ug/l	0.083	0.027	A
PCBs, Total	ND		ug/l	0.083	0.017	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	62		30-150	B



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 09/06/17 23:59
 Analyst: HT

Extraction Method: EPA 3546
 Extraction Date: 09/04/17 08:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/04/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/04/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-03,07-09 Batch: WG1038324-1						
Aroclor 1016	ND		ug/kg	32.4	3.67	A
Aroclor 1221	ND		ug/kg	32.4	4.92	A
Aroclor 1232	ND		ug/kg	32.4	3.18	A
Aroclor 1242	ND		ug/kg	32.4	3.96	A
Aroclor 1248	ND		ug/kg	32.4	3.63	A
Aroclor 1254	ND		ug/kg	32.4	2.64	A
Aroclor 1260	ND		ug/kg	32.4	3.38	A
Aroclor 1262	ND		ug/kg	32.4	2.66	A
Aroclor 1268	ND		ug/kg	32.4	2.29	A
PCBs, Total	ND		ug/kg	32.4	2.29	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	71		30-150	B



Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Project Number: 170488401

Lab Number: L1731032

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 10 Batch: WG1038295-2 WG1038295-3									
Aroclor 1016	105		98		40-140	7		50	A
Aroclor 1260	84		81		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		84		30-150	A
Decachlorobiphenyl	54		59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		86		30-150	B
Decachlorobiphenyl	64		62		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03,07-09 Batch: WG1038324-2 WG1038324-3									
Aroclor 1016	101		114		40-140	12		50	A
Aroclor 1260	122		138		40-140	12		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		88		30-150	A
Decachlorobiphenyl	79		87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		85		30-150	B
Decachlorobiphenyl	79		84		30-150	B



PESTICIDES

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-01
 Client ID: WC03A_COMP_0-6
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:31
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 10:07
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/05/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/07/17 09:06
 Analyst: CD
 Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.63	0.320	1	A
Lindane	ND		ug/kg	0.681	0.304	1	A
Alpha-BHC	ND		ug/kg	0.681	0.193	1	A
Beta-BHC	ND		ug/kg	1.63	0.620	1	A
Heptachlor	ND		ug/kg	0.817	0.366	1	A
Aldrin	ND		ug/kg	1.63	0.575	1	A
Heptachlor epoxide	ND		ug/kg	3.06	0.919	1	A
Endrin	ND		ug/kg	0.681	0.279	1	A
Endrin aldehyde	ND		ug/kg	2.04	0.715	1	A
Endrin ketone	ND		ug/kg	1.63	0.421	1	A
Dieldrin	ND		ug/kg	1.02	0.511	1	A
4,4'-DDE	8.46		ug/kg	1.63	0.378	1	A
4,4'-DDD	ND		ug/kg	1.63	0.583	1	A
4,4'-DDT	4.47		ug/kg	3.06	1.31	1	B
Endosulfan I	ND		ug/kg	1.63	0.386	1	A
Endosulfan II	ND	PI	ug/kg	1.63	0.546	1	A
Endosulfan sulfate	ND		ug/kg	0.681	0.324	1	A
Methoxychlor	ND		ug/kg	3.06	0.953	1	A
Toxaphene	ND		ug/kg	30.6	8.58	1	A
cis-Chlordane	4.74		ug/kg	2.04	0.569	1	A
trans-Chlordane	9.43	PI	ug/kg	2.04	0.539	1	A
Chlordane	74.8		ug/kg	13.3	5.41	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	63		30-150	B
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	73		30-150	A



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-01
 Client ID: WC03A_COMP_0-6
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:31
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 09/05/17 03:08

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 09/06/17 22:51
 Analyst: SL
 Percent Solids: 97%
 Methylation Date: 09/05/17 21:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	168	10.6	1	A
2,4,5-T	ND		ug/kg	168	5.22	1	A
2,4,5-TP (Silvex)	ND		ug/kg	168	4.48	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	89		30-150	A
DCAA	80		30-150	B

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-02
 Client ID: WC03B_COMP_6-12
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:21
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 10:07
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/05/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/07/17 09:19
 Analyst: CD
 Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.64	0.321	1	A
Lindane	ND		ug/kg	0.683	0.305	1	A
Alpha-BHC	ND		ug/kg	0.683	0.194	1	A
Beta-BHC	ND		ug/kg	1.64	0.622	1	A
Heptachlor	ND		ug/kg	0.820	0.368	1	B
Aldrin	ND		ug/kg	1.64	0.578	1	A
Heptachlor epoxide	ND		ug/kg	3.08	0.923	1	A
Endrin	ND		ug/kg	0.683	0.280	1	A
Endrin aldehyde	ND		ug/kg	2.05	0.718	1	A
Endrin ketone	ND		ug/kg	1.64	0.422	1	A
Dieldrin	ND		ug/kg	1.02	0.512	1	A
4,4'-DDE	ND		ug/kg	1.64	0.379	1	A
4,4'-DDD	ND		ug/kg	1.64	0.585	1	A
4,4'-DDT	ND		ug/kg	3.08	1.32	1	B
Endosulfan I	ND		ug/kg	1.64	0.388	1	A
Endosulfan II	ND		ug/kg	1.64	0.548	1	A
Endosulfan sulfate	ND		ug/kg	0.683	0.325	1	A
Methoxychlor	ND		ug/kg	3.08	0.957	1	A
Toxaphene	ND		ug/kg	30.8	8.61	1	A
cis-Chlordane	ND		ug/kg	2.05	0.571	1	A
trans-Chlordane	ND		ug/kg	2.05	0.541	1	A
Chlordane	ND		ug/kg	13.3	5.43	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	55		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	65		30-150	A



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-02
Client ID: WC03B_COMP_6-12
Sample Location: BRONX, NY

Date Collected: 09/01/17 13:21
Date Received: 09/01/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 09/05/17 03:08

Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/06/17 23:10
Analyst: SL
Percent Solids: 96%
Methylation Date: 09/05/17 21:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	169	10.6	1	A
2,4,5-T	ND		ug/kg	169	5.23	1	A
2,4,5-TP (Silvex)	ND		ug/kg	169	4.49	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	74		30-150	A
DCAA	68		30-150	B

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-03
 Client ID: WC03N_COMP_12-28
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:15
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 10:07
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/05/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/07/17 09:32
 Analyst: CD
 Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.58	0.309	1	A
Lindane	ND		ug/kg	0.657	0.294	1	A
Alpha-BHC	ND		ug/kg	0.657	0.187	1	A
Beta-BHC	ND		ug/kg	1.58	0.598	1	A
Heptachlor	ND		ug/kg	0.788	0.354	1	A
Aldrin	ND		ug/kg	1.58	0.555	1	A
Heptachlor epoxide	ND		ug/kg	2.96	0.887	1	A
Endrin	ND		ug/kg	0.657	0.269	1	A
Endrin aldehyde	ND		ug/kg	1.97	0.690	1	A
Endrin ketone	ND		ug/kg	1.58	0.406	1	A
Dieldrin	ND		ug/kg	0.986	0.493	1	A
4,4'-DDE	ND		ug/kg	1.58	0.365	1	A
4,4'-DDD	ND		ug/kg	1.58	0.562	1	A
4,4'-DDT	ND		ug/kg	2.96	1.27	1	A
Endosulfan I	ND		ug/kg	1.58	0.373	1	A
Endosulfan II	ND		ug/kg	1.58	0.527	1	A
Endosulfan sulfate	ND		ug/kg	0.657	0.313	1	A
Methoxychlor	ND		ug/kg	2.96	0.920	1	A
Toxaphene	ND		ug/kg	29.6	8.28	1	A
cis-Chlordane	ND		ug/kg	1.97	0.549	1	A
trans-Chlordane	ND		ug/kg	1.97	0.520	1	A
Chlordane	ND		ug/kg	12.8	5.22	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	77		30-150	B
2,4,5,6-Tetrachloro-m-xylene	105		30-150	A
Decachlorobiphenyl	90		30-150	A



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-03
 Client ID: WC03N_COMP_12-28
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:15
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 09/05/17 03:08

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 09/07/17 00:09
 Analyst: SL
 Percent Solids: 97%
 Methylation Date: 09/05/17 21:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	170	10.7	1	A
2,4,5-T	ND		ug/kg	170	5.26	1	A
2,4,5-TP (Silvex)	ND		ug/kg	170	4.51	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	47		30-150	A
DCAA	44		30-150	B

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-07
 Client ID: WC04A_COMP_0-5
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:41
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 09/05/17 20:06

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/07/17 10:28
 Analyst: KEG
 Percent Solids: 97%
 TCLP/SPLP Ext. Date: 09/04/17 21:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Pesticides by EPA 1311 - Westborough Lab							
Lindane	ND		ug/l	0.100	0.022	1	A
Heptachlor	ND		ug/l	0.100	0.016	1	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	1	A
Endrin	ND		ug/l	0.200	0.021	1	A
Methoxychlor	ND		ug/l	1.00	0.034	1	A
Toxaphene	ND		ug/l	1.00	0.314	1	A
Chlordane	ND		ug/l	1.00	0.232	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-07
 Client ID: WC04A_COMP_0-5
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:41
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 10:07
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/05/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/08/17 09:43
 Analyst: KEG
 Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	0.594	JPI	ug/kg	1.63	0.320	1	B
Lindane	ND		ug/kg	0.681	0.304	1	A
Alpha-BHC	ND		ug/kg	0.681	0.193	1	A
Beta-BHC	ND		ug/kg	1.63	0.620	1	A
Heptachlor	ND		ug/kg	0.817	0.366	1	A
Aldrin	ND		ug/kg	1.63	0.575	1	A
Heptachlor epoxide	ND		ug/kg	3.06	0.919	1	A
Endrin	ND		ug/kg	0.681	0.279	1	A
Endrin aldehyde	ND		ug/kg	2.04	0.715	1	A
Endrin ketone	ND		ug/kg	1.63	0.421	1	A
Dieldrin	ND		ug/kg	1.02	0.511	1	A
4,4'-DDE	ND		ug/kg	1.63	0.378	1	A
4,4'-DDD	ND		ug/kg	1.63	0.583	1	A
4,4'-DDT	ND		ug/kg	3.06	1.31	1	A
Endosulfan I	ND		ug/kg	1.63	0.386	1	A
Endosulfan II	ND		ug/kg	1.63	0.546	1	A
Endosulfan sulfate	ND		ug/kg	0.681	0.324	1	A
Methoxychlor	13.2	PI	ug/kg	3.06	0.953	1	A
Toxaphene	ND		ug/kg	30.6	8.58	1	A
cis-Chlordane	ND		ug/kg	2.04	0.569	1	A
trans-Chlordane	0.605	JPI	ug/kg	2.04	0.539	1	A
Chlordane	ND		ug/kg	13.3	5.41	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	113		30-150	B
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	89		30-150	A



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-07
 Client ID: WC04A_COMP_0-5
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:41
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 09/05/17 21:51

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 09/07/17 12:05
 Analyst: SL
 Percent Solids: 97%
 TCLP/SPLP Ext. Date: 09/04/17 21:37
 Methylation Date: 09/06/17 14:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	68		30-150	A
DCAA	50		30-150	B

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-07
Client ID: WC04A_COMP_0-5
Sample Location: BRONX, NY

Date Collected: 09/01/17 13:41
Date Received: 09/01/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 09/05/17 03:08

Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/07/17 00:28
Analyst: SL
Percent Solids: 97%
Methylation Date: 09/05/17 21:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	170	10.7	1	A
2,4,5-T	ND		ug/kg	170	5.28	1	A
2,4,5-TP (Silvex)	ND		ug/kg	170	4.54	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	59		30-150	A
DCAA	57		30-150	B

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-08
 Client ID: WC04B_COMP_5-10
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:51
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 10:07
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/05/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/08/17 09:18
 Analyst: KEG
 Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.61	0.315	1	A
Lindane	ND		ug/kg	0.671	0.300	1	A
Alpha-BHC	ND		ug/kg	0.671	0.191	1	A
Beta-BHC	ND		ug/kg	1.61	0.611	1	A
Heptachlor	ND		ug/kg	0.805	0.361	1	A
Aldrin	ND		ug/kg	1.61	0.567	1	A
Heptachlor epoxide	ND		ug/kg	3.02	0.906	1	A
Endrin	ND		ug/kg	0.671	0.275	1	A
Endrin aldehyde	ND		ug/kg	2.01	0.705	1	A
Endrin ketone	ND		ug/kg	1.61	0.415	1	A
Dieldrin	ND		ug/kg	1.01	0.503	1	A
4,4'-DDE	0.543	J	ug/kg	1.61	0.372	1	A
4,4'-DDD	ND		ug/kg	1.61	0.574	1	A
4,4'-DDT	ND		ug/kg	3.02	1.30	1	B
Endosulfan I	ND		ug/kg	1.61	0.380	1	A
Endosulfan II	ND		ug/kg	1.61	0.538	1	A
Endosulfan sulfate	ND		ug/kg	0.671	0.319	1	A
Methoxychlor	ND		ug/kg	3.02	0.940	1	A
Toxaphene	ND		ug/kg	30.2	8.46	1	A
cis-Chlordane	ND		ug/kg	2.01	0.561	1	A
trans-Chlordane	0.536	J	ug/kg	2.01	0.532	1	A
Chlordane	ND		ug/kg	13.1	5.34	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	79		30-150	B
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	46		30-150	A



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-08
 Client ID: WC04B_COMP_5-10
 Sample Location: BRONX, NY

Date Collected: 09/01/17 13:51
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 09/05/17 03:08

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 09/06/17 23:30
 Analyst: SL
 Percent Solids: 97%
 Methylation Date: 09/05/17 21:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	172	10.8	1	A
2,4,5-T	ND		ug/kg	172	5.34	1	A
2,4,5-TP (Silvex)	ND		ug/kg	172	4.58	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	57		30-150	A
DCAA	56		30-150	B

Project Name: 414 GERARD AVE**Lab Number:** L1731032**Project Number:** 170488401**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731032-09
 Client ID: WC04N_COMP_10-15
 Sample Location: BRONX, NY

Date Collected: 09/01/17 14:01
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 10:07
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/05/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/08/17 09:31
 Analyst: KEG
 Percent Solids: 98%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.58	0.309	1	A
Lindane	ND		ug/kg	0.657	0.294	1	A
Alpha-BHC	ND		ug/kg	0.657	0.186	1	A
Beta-BHC	ND		ug/kg	1.58	0.598	1	A
Heptachlor	ND		ug/kg	0.788	0.353	1	A
Aldrin	ND		ug/kg	1.58	0.555	1	A
Heptachlor epoxide	ND		ug/kg	2.95	0.886	1	A
Endrin	ND		ug/kg	0.657	0.269	1	A
Endrin aldehyde	ND		ug/kg	1.97	0.689	1	A
Endrin ketone	ND		ug/kg	1.58	0.406	1	A
Dieldrin	ND		ug/kg	0.985	0.492	1	A
4,4'-DDE	ND		ug/kg	1.58	0.364	1	A
4,4'-DDD	ND		ug/kg	1.58	0.562	1	A
4,4'-DDT	ND		ug/kg	2.95	1.27	1	A
Endosulfan I	ND		ug/kg	1.58	0.372	1	A
Endosulfan II	ND		ug/kg	1.58	0.527	1	A
Endosulfan sulfate	ND		ug/kg	0.657	0.312	1	A
Methoxychlor	ND	PI	ug/kg	2.95	0.919	1	A
Toxaphene	ND		ug/kg	29.5	8.27	1	A
cis-Chlordane	ND		ug/kg	1.97	0.549	1	A
trans-Chlordane	0.546	J	ug/kg	1.97	0.520	1	A
Chlordane	ND		ug/kg	12.8	5.22	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	107		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	52		30-150	A



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-09
Client ID: WC04N_COMP_10-15
Sample Location: BRONX, NY

Date Collected: 09/01/17 14:01
Date Received: 09/01/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 09/05/17 03:08

Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/06/17 23:49
Analyst: SL
Percent Solids: 98%
Methylation Date: 09/05/17 21:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	168	10.6	1	A
2,4,5-T	ND		ug/kg	168	5.21	1	A
2,4,5-TP (Silvex)	ND		ug/kg	168	4.47	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	81		30-150	A
DCAA	78		30-150	B

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-10
Client ID: WCFB01_090117
Sample Location: BRONX, NY

Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 09/06/17 11:09
Analyst: KEG

Date Collected: 09/01/17 14:15
Date Received: 09/01/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 09/05/17 01:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin aldehyde	ND		ug/l	0.040	0.008	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	74		30-150	B



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-10
 Client ID: WCFB01_090117
 Sample Location: BRONX, NY

Date Collected: 09/01/17 14:15
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 09/05/17 07:35

Matrix: Water
 Analytical Method: 1,8151A
 Analytical Date: 09/06/17 09:11
 Analyst: SL

Methylation Date: 09/05/17 21:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	76		30-150	A
DCAA	68		30-150	B

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/07/17 05:40
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 09/04/17 10:07
Cleanup Method: EPA 3620B
Cleanup Date: 09/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03,07-09 Batch: WG1038338-1						
Delta-BHC	ND		ug/kg	1.58	0.309	A
Lindane	ND		ug/kg	0.658	0.294	A
Alpha-BHC	ND		ug/kg	0.658	0.187	A
Beta-BHC	ND		ug/kg	1.58	0.599	A
Heptachlor	ND		ug/kg	0.790	0.354	A
Aldrin	ND		ug/kg	1.58	0.556	A
Heptachlor epoxide	ND		ug/kg	2.96	0.889	A
Endrin	ND		ug/kg	0.658	0.270	A
Endrin aldehyde	ND		ug/kg	1.97	0.691	A
Endrin ketone	ND		ug/kg	1.58	0.407	A
Dieldrin	ND		ug/kg	0.987	0.494	A
4,4'-DDE	ND		ug/kg	1.58	0.365	A
4,4'-DDD	ND		ug/kg	1.58	0.564	A
4,4'-DDT	ND		ug/kg	2.96	1.27	A
Endosulfan I	ND		ug/kg	1.58	0.373	A
Endosulfan II	ND		ug/kg	1.58	0.528	A
Endosulfan sulfate	ND		ug/kg	0.658	0.313	A
Methoxychlor	ND		ug/kg	2.96	0.922	A
Toxaphene	ND		ug/kg	29.6	8.29	A
cis-Chlordane	ND		ug/kg	1.97	0.550	A
trans-Chlordane	ND		ug/kg	1.97	0.521	A
Chlordane	ND		ug/kg	12.8	5.23	A



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 09/07/17 05:40
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 09/04/17 10:07
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03,07-09 Batch: WG1038338-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	100		30-150	B
2,4,5,6-Tetrachloro-m-xylene	103		30-150	A
Decachlorobiphenyl	111		30-150	A

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/06/17 10:19
Analyst: KEG

Extraction Method: EPA 3510C
Extraction Date: 09/05/17 01:32

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 10 Batch: WG1038396-1						
Delta-BHC	ND		ug/l	0.020	0.005	A
Lindane	ND		ug/l	0.020	0.004	A
Alpha-BHC	ND		ug/l	0.020	0.004	A
Beta-BHC	ND		ug/l	0.020	0.006	A
Heptachlor	ND		ug/l	0.020	0.003	A
Aldrin	ND		ug/l	0.020	0.002	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	A
Endrin	ND		ug/l	0.040	0.004	A
Endrin aldehyde	ND		ug/l	0.040	0.008	A
Endrin ketone	ND		ug/l	0.040	0.005	A
Dieldrin	ND		ug/l	0.040	0.004	A
4,4'-DDE	ND		ug/l	0.040	0.004	A
4,4'-DDD	ND		ug/l	0.040	0.005	A
4,4'-DDT	ND		ug/l	0.040	0.004	A
Endosulfan I	ND		ug/l	0.020	0.003	A
Endosulfan II	ND		ug/l	0.040	0.005	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	A
Methoxychlor	ND		ug/l	0.200	0.007	A
Toxaphene	ND		ug/l	0.200	0.063	A
cis-Chlordane	ND		ug/l	0.020	0.007	A
trans-Chlordane	ND		ug/l	0.020	0.006	A
Chlordane	ND		ug/l	0.200	0.046	A

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 09/06/17 10:19
 Analyst: KEG

Extraction Method: EPA 3510C
 Extraction Date: 09/05/17 01:32

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 10 Batch: WG1038396-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	101		30-150	B

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 09/06/17 18:57
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 09/05/17 00:12

Methylation Date: 09/05/17 21:09

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-03,07-09 Batch: WG1038398-1						
2,4-D	ND		ug/kg	165	10.4	A
2,4,5-T	ND		ug/kg	165	5.12	A
2,4,5-TP (Silvex)	ND		ug/kg	165	4.40	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	73		30-150	A
DCAA	74		30-150	B

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 09/06/17 08:12
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 09/05/17 07:35

Methylation Date: 09/05/17 21:20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 10 Batch: WG1038439-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	80		30-150	A
DCAA	70		30-150	B

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/07/17 08:59
Analyst: KEG
TCLP/SPLP Extraction Date: 09/04/17 21:37

Extraction Method: EPA 3510C
Extraction Date: 09/05/17 20:06

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Pesticides by EPA 1311 - Westborough Lab for sample(s): 07 Batch: WG1038683-1						
Lindane	ND		ug/l	0.100	0.022	A
Heptachlor	ND		ug/l	0.100	0.016	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	A
Endrin	ND		ug/l	0.200	0.021	A
Methoxychlor	ND		ug/l	1.00	0.034	A
Toxaphene	ND		ug/l	1.00	0.314	A
Chlordane	ND		ug/l	1.00	0.232	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	119		30-150	B

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 09/07/17 06:38
Analyst: SL
TCLP/SPLP Extraction Date: 09/04/17 21:37
Methylation Date: 09/06/17 14:31

Extraction Method: EPA 8151A
Extraction Date: 09/05/17 21:51

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Herbicides by EPA 1311 - Westborough Lab for sample(s): 07 Batch: WG1038695-1						
2,4-D	ND		mg/l	0.025	0.001	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	66		30-150	A
DCAA	49		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Project Number: 170488401

Lab Number: L1731032

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03,07-09 Batch: WG1038338-2 WG1038338-3									
Delta-BHC	76		83		30-150	9		30	A
Lindane	76		81		30-150	6		30	A
Alpha-BHC	87		94		30-150	8		30	A
Beta-BHC	78		80		30-150	3		30	A
Heptachlor	80		86		30-150	7		30	A
Aldrin	88		93		30-150	6		30	A
Heptachlor epoxide	76		82		30-150	8		30	A
Endrin	76		84		30-150	10		30	A
Endrin aldehyde	45		58		30-150	25		30	A
Endrin ketone	62		75		30-150	19		30	A
Dieldrin	88		97		30-150	10		30	A
4,4'-DDE	92		98		30-150	6		30	A
4,4'-DDD	76		87		30-150	13		30	A
4,4'-DDT	81		89		30-150	9		30	A
Endosulfan I	79		87		30-150	10		30	A
Endosulfan II	71		82		30-150	14		30	A
Endosulfan sulfate	52		66		30-150	24		30	A
Methoxychlor	74		82		30-150	10		30	A
cis-Chlordane	80		81		30-150	1		30	A
trans-Chlordane	78		82		30-150	5		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Project Number: 170488401

Lab Number: L1731032

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03,07-09 Batch: WG1038338-2 WG1038338-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		83		30-150	B
Decachlorobiphenyl	89		91		30-150	B
2,4,5,6-Tetrachloro-m-xylene	93		96		30-150	A
Decachlorobiphenyl	98		97		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 10 Batch: WG1038396-2 WG1038396-3									
Delta-BHC	78		83		30-150	6		20	A
Lindane	77		82		30-150	6		20	A
Alpha-BHC	78		83		30-150	6		20	A
Beta-BHC	73		78		30-150	7		20	A
Heptachlor	63		83		30-150	27	Q	20	A
Aldrin	55		79		30-150	36	Q	20	A
Heptachlor epoxide	82		88		30-150	7		20	A
Endrin	80		85		30-150	6		20	A
Endrin aldehyde	59		61		30-150	4		20	A
Endrin ketone	72		75		30-150	4		20	A
Dieldrin	80		87		30-150	8		20	A
4,4'-DDE	77		84		30-150	8		20	A
4,4'-DDD	77		83		30-150	7		20	A
4,4'-DDT	80		84		30-150	4		20	A
Endosulfan I	77		84		30-150	8		20	A
Endosulfan II	75		78		30-150	4		20	A
Endosulfan sulfate	70		73		30-150	4		20	A
Methoxychlor	83		90		30-150	8		20	A
cis-Chlordane	69		76		30-150	10		20	A
trans-Chlordane	66		73		30-150	11		20	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 10 Batch: WG1038396-2 WG1038396-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	51		72		30-150	A
Decachlorobiphenyl	61		60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		73		30-150	B
Decachlorobiphenyl	87		88		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-03,07-09 Batch: WG1038398-2 WG1038398-3									
2,4-D	58		71		30-150	20		30	A
2,4,5-T	54		72		30-150	29		30	A
2,4,5-TP (Silvex)	50		69		30-150	32	Q	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	54		77		30-150	A
DCAA	56		82		30-150	B



Lab Control Sample Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 10 Batch: WG1038439-2 WG1038439-3									
2,4-D	77		81		30-150	5		25	A
2,4,5-T	78		82		30-150	5		25	A
2,4,5-TP (Silvex)	73		76		30-150	4		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	81		84		30-150	A
DCAA	81		82		30-150	B



Lab Control Sample Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Pesticides by EPA 1311 - Westborough Lab Associated sample(s): 07 Batch: WG1038683-2 WG1038683-3									
Lindane	102		96		30-150	6		20	A
Heptachlor	99		94		30-150	5		20	A
Heptachlor epoxide	100		95		30-150	5		20	A
Endrin	98		91		30-150	7		20	A
Methoxychlor	97		83		30-150	15		20	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		82		30-150	A
Decachlorobiphenyl	64		52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		89		30-150	B
Decachlorobiphenyl	112		102		30-150	B



Lab Control Sample Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Herbicides by EPA 1311 - Westborough Lab Associated sample(s): 07 Batch: WG1038695-2 WG1038695-3									
2,4-D	91		87		30-150	4		25	A
2,4,5-TP (Silvex)	41		41		30-150	0		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	57		64		30-150	A
DCAA	44		45		30-150	B



METALS

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-01
 Client ID: WC03A_COMP_0-6
 Sample Location: BRONX, NY
 Matrix: Soil
 Percent Solids: 97%

Date Collected: 09/01/17 13:31
 Date Received: 09/01/17
 Field Prep: Not Specified
 TCLP/SPLP Ext. Date: 09/04/17 21:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	09/08/17 15:11	09/08/17 19:53	EPA 3015	1,6010C	AB
Barium, TCLP	0.702		mg/l	0.500	0.021	1	09/08/17 15:11	09/08/17 19:53	EPA 3015	1,6010C	AB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	09/08/17 15:11	09/08/17 19:53	EPA 3015	1,6010C	AB
Chromium, TCLP	0.028	J	mg/l	0.200	0.021	1	09/08/17 15:11	09/08/17 19:53	EPA 3015	1,6010C	AB
Lead, TCLP	0.517		mg/l	0.500	0.027	1	09/08/17 15:11	09/08/17 19:53	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	09/07/17 15:27	09/07/17 23:50	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	09/08/17 15:11	09/08/17 19:53	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	09/08/17 15:11	09/08/17 19:53	EPA 3015	1,6010C	AB



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-01
 Client ID: WC03A_COMP_0-6
 Sample Location: BRONX, NY
 Matrix: Soil
 Percent Solids: 97%

Date Collected: 09/01/17 13:31
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5860		mg/kg	7.96	2.15	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
Antimony, Total	0.851	J	mg/kg	3.98	0.302	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
Arsenic, Total	2.96		mg/kg	0.796	0.166	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
Barium, Total	75.6		mg/kg	0.796	0.138	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
Beryllium, Total	0.239	J	mg/kg	0.398	0.026	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
Cadmium, Total	0.334	J	mg/kg	0.796	0.078	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
Calcium, Total	14700		mg/kg	7.96	2.78	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
Chromium, Total	10.5		mg/kg	0.796	0.076	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
Cobalt, Total	3.44		mg/kg	1.59	0.132	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
Copper, Total	54.8		mg/kg	0.796	0.205	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
Iron, Total	9130		mg/kg	3.98	0.718	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
Lead, Total	146		mg/kg	3.98	0.213	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
Magnesium, Total	2260		mg/kg	7.96	1.22	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
Manganese, Total	170		mg/kg	0.796	0.126	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
Mercury, Total	0.32		mg/kg	0.07	0.01	1	09/06/17 08:30	09/06/17 21:02	EPA 7471B	1,7471B	EA
Nickel, Total	8.30		mg/kg	1.99	0.192	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
Potassium, Total	740		mg/kg	199	11.4	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
Selenium, Total	ND		mg/kg	1.59	0.205	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
Silver, Total	0.318	J	mg/kg	0.796	0.225	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
Sodium, Total	271		mg/kg	159	2.51	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.59	0.251	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
Vanadium, Total	12.9		mg/kg	0.796	0.162	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
Zinc, Total	87.8		mg/kg	3.98	0.233	2	09/06/17 06:00	09/06/17 12:46	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	10		mg/kg	0.83	0.83	1		09/07/17 09:15	NA	107,-	



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-02
 Client ID: WC03B_COMP_6-12
 Sample Location: BRONX, NY
 Matrix: Soil
 Percent Solids: 96%

Date Collected: 09/01/17 13:21
 Date Received: 09/01/17
 Field Prep: Not Specified
 TCLP/SPLP Ext. Date: 09/04/17 21:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	09/08/17 15:11	09/08/17 19:57	EPA 3015	1,6010C	AB
Barium, TCLP	0.326	J	mg/l	0.500	0.021	1	09/08/17 15:11	09/08/17 19:57	EPA 3015	1,6010C	AB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	09/08/17 15:11	09/08/17 19:57	EPA 3015	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	09/08/17 15:11	09/08/17 19:57	EPA 3015	1,6010C	AB
Lead, TCLP	0.062	J	mg/l	0.500	0.027	1	09/08/17 15:11	09/08/17 19:57	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	09/07/17 15:27	09/07/17 23:52	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	09/08/17 15:11	09/08/17 19:57	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	09/08/17 15:11	09/08/17 19:57	EPA 3015	1,6010C	AB



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-02
 Client ID: WC03B_COMP_6-12
 Sample Location: BRONX, NY
 Matrix: Soil
 Percent Solids: 96%

Date Collected: 09/01/17 13:21
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8770		mg/kg	8.31	2.24	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.15	0.316	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
Arsenic, Total	2.62		mg/kg	0.831	0.173	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
Barium, Total	38.6		mg/kg	0.831	0.144	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
Beryllium, Total	0.366	J	mg/kg	0.415	0.027	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
Cadmium, Total	0.374	J	mg/kg	0.831	0.081	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
Calcium, Total	1110		mg/kg	8.31	2.91	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
Chromium, Total	12.2		mg/kg	0.831	0.080	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
Cobalt, Total	5.69		mg/kg	1.66	0.138	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
Copper, Total	17.1		mg/kg	0.831	0.214	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
Iron, Total	14500		mg/kg	4.15	0.750	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
Lead, Total	38.6		mg/kg	4.15	0.223	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
Magnesium, Total	2710		mg/kg	8.31	1.28	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
Manganese, Total	292		mg/kg	0.831	0.132	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
Mercury, Total	0.08		mg/kg	0.07	0.01	1	09/06/17 08:30	09/06/17 21:08	EPA 7471B	1,7471B	EA
Nickel, Total	12.4		mg/kg	2.08	0.201	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
Potassium, Total	454		mg/kg	208	12.0	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
Selenium, Total	ND		mg/kg	1.66	0.214	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.831	0.235	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
Sodium, Total	61.5	J	mg/kg	166	2.62	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.66	0.262	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
Vanadium, Total	15.2		mg/kg	0.831	0.169	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
Zinc, Total	55.0		mg/kg	4.15	0.243	2	09/06/17 06:00	09/06/17 12:50	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12		mg/kg	0.83	0.83	1		09/07/17 09:15	NA	107,-	



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-03

Date Collected: 09/01/17 13:15

Client ID: WC03N_COMP_12-28

Date Received: 09/01/17

Sample Location: BRONX, NY

Field Prep: Not Specified

Matrix: Soil

TCLP/SPLP Ext. Date: 09/04/17 21:37

Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	09/08/17 15:11	09/08/17 20:02	EPA 3015	1,6010C	AB
Barium, TCLP	0.360	J	mg/l	0.500	0.021	1	09/08/17 15:11	09/08/17 20:02	EPA 3015	1,6010C	AB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	09/08/17 15:11	09/08/17 20:02	EPA 3015	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	09/08/17 15:11	09/08/17 20:02	EPA 3015	1,6010C	AB
Lead, TCLP	ND		mg/l	0.500	0.027	1	09/08/17 15:11	09/08/17 20:02	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	09/07/17 15:27	09/07/17 23:54	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	09/08/17 15:11	09/08/17 20:02	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	09/08/17 15:11	09/08/17 20:02	EPA 3015	1,6010C	AB



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-03
 Client ID: WC03N_COMP_12-28
 Sample Location: BRONX, NY
 Matrix: Soil
 Percent Solids: 97%

Date Collected: 09/01/17 13:15
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6170		mg/kg	8.07	2.18	2	09/06/17 06:00	09/06/17 14:18	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.04	0.307	2	09/06/17 06:00	09/06/17 15:57	EPA 3050B	1,6010C	AB
Arsenic, Total	0.775	J	mg/kg	0.807	0.168	2	09/06/17 06:00	09/06/17 14:18	EPA 3050B	1,6010C	AB
Barium, Total	35.9		mg/kg	0.807	0.140	2	09/06/17 06:00	09/06/17 14:18	EPA 3050B	1,6010C	AB
Beryllium, Total	0.145	J	mg/kg	0.404	0.027	2	09/06/17 06:00	09/06/17 14:18	EPA 3050B	1,6010C	AB
Cadmium, Total	0.242	J	mg/kg	0.807	0.079	2	09/06/17 06:00	09/06/17 14:18	EPA 3050B	1,6010C	AB
Calcium, Total	97000		mg/kg	80.7	28.2	20	09/06/17 06:00	09/06/17 17:18	EPA 3050B	1,6010C	AB
Chromium, Total	10.4		mg/kg	0.807	0.078	2	09/06/17 06:00	09/06/17 14:18	EPA 3050B	1,6010C	AB
Cobalt, Total	4.98		mg/kg	1.61	0.134	2	09/06/17 06:00	09/06/17 14:18	EPA 3050B	1,6010C	AB
Copper, Total	9.60		mg/kg	0.807	0.208	2	09/06/17 06:00	09/06/17 14:18	EPA 3050B	1,6010C	AB
Iron, Total	10300		mg/kg	4.04	0.729	2	09/06/17 06:00	09/06/17 14:18	EPA 3050B	1,6010C	AB
Lead, Total	3.32	J	mg/kg	4.04	0.216	2	09/06/17 06:00	09/06/17 14:18	EPA 3050B	1,6010C	AB
Magnesium, Total	47900		mg/kg	8.07	1.24	2	09/06/17 06:00	09/06/17 14:18	EPA 3050B	1,6010C	AB
Manganese, Total	190		mg/kg	0.807	0.128	2	09/06/17 06:00	09/06/17 14:18	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.07	0.01	1	09/06/17 08:30	09/06/17 21:10	EPA 7471B	1,7471B	EA
Nickel, Total	8.01		mg/kg	2.02	0.195	2	09/06/17 06:00	09/06/17 14:18	EPA 3050B	1,6010C	AB
Potassium, Total	1360		mg/kg	202	11.6	2	09/06/17 06:00	09/06/17 14:18	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.61	0.208	2	09/06/17 06:00	09/06/17 14:18	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.807	0.228	2	09/06/17 06:00	09/06/17 14:18	EPA 3050B	1,6010C	AB
Sodium, Total	88.0	J	mg/kg	161	2.54	2	09/06/17 06:00	09/06/17 14:18	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.61	0.254	2	09/06/17 06:00	09/06/17 14:18	EPA 3050B	1,6010C	AB
Vanadium, Total	15.8		mg/kg	0.807	0.164	2	09/06/17 06:00	09/06/17 14:18	EPA 3050B	1,6010C	AB
Zinc, Total	25.6		mg/kg	4.04	0.236	2	09/06/17 06:00	09/06/17 14:18	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	10		mg/kg	0.83	0.83	1		09/07/17 09:15	NA	107,-	



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-07
 Client ID: WC04A_COMP_0-5
 Sample Location: BRONX, NY
 Matrix: Soil
 Percent Solids: 97%

Date Collected: 09/01/17 13:41
 Date Received: 09/01/17
 Field Prep: Not Specified
 TCLP/SPLP Ext. Date: 09/04/17 21:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.020	J	mg/l	1.00	0.019	1	09/08/17 15:11	09/08/17 20:07	EPA 3015	1,6010C	AB
Barium, TCLP	0.422	J	mg/l	0.500	0.021	1	09/08/17 15:11	09/08/17 20:07	EPA 3015	1,6010C	AB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	09/08/17 15:11	09/08/17 20:07	EPA 3015	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	09/08/17 15:11	09/08/17 20:07	EPA 3015	1,6010C	AB
Lead, TCLP	0.042	J	mg/l	0.500	0.027	1	09/08/17 15:11	09/08/17 20:07	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	09/07/17 15:27	09/07/17 23:56	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	09/08/17 15:11	09/08/17 20:07	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	09/08/17 15:11	09/08/17 20:07	EPA 3015	1,6010C	AB



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-07
 Client ID: WC04A_COMP_0-5
 Sample Location: BRONX, NY
 Matrix: Soil
 Percent Solids: 97%

Date Collected: 09/01/17 13:41
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8130		mg/kg	7.96	2.15	2	09/06/17 06:00	09/06/17 14:23	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	3.98	0.302	2	09/06/17 06:00	09/06/17 16:01	EPA 3050B	1,6010C	AB
Arsenic, Total	3.16		mg/kg	0.796	0.166	2	09/06/17 06:00	09/06/17 14:23	EPA 3050B	1,6010C	AB
Barium, Total	59.4		mg/kg	0.796	0.138	2	09/06/17 06:00	09/06/17 14:23	EPA 3050B	1,6010C	AB
Beryllium, Total	0.342	J	mg/kg	0.398	0.026	2	09/06/17 06:00	09/06/17 14:23	EPA 3050B	1,6010C	AB
Cadmium, Total	0.414	J	mg/kg	0.796	0.078	2	09/06/17 06:00	09/06/17 14:23	EPA 3050B	1,6010C	AB
Calcium, Total	3920		mg/kg	7.96	2.79	2	09/06/17 06:00	09/06/17 14:23	EPA 3050B	1,6010C	AB
Chromium, Total	12.5		mg/kg	0.796	0.076	2	09/06/17 06:00	09/06/17 14:23	EPA 3050B	1,6010C	AB
Cobalt, Total	5.91		mg/kg	1.59	0.132	2	09/06/17 06:00	09/06/17 14:23	EPA 3050B	1,6010C	AB
Copper, Total	23.2		mg/kg	0.796	0.205	2	09/06/17 06:00	09/06/17 14:23	EPA 3050B	1,6010C	AB
Iron, Total	15200		mg/kg	3.98	0.719	2	09/06/17 06:00	09/06/17 14:23	EPA 3050B	1,6010C	AB
Lead, Total	50.4		mg/kg	3.98	0.213	2	09/06/17 06:00	09/06/17 14:23	EPA 3050B	1,6010C	AB
Magnesium, Total	2870		mg/kg	7.96	1.22	2	09/06/17 06:00	09/06/17 14:23	EPA 3050B	1,6010C	AB
Manganese, Total	349		mg/kg	0.796	0.126	2	09/06/17 06:00	09/06/17 14:23	EPA 3050B	1,6010C	AB
Mercury, Total	0.08		mg/kg	0.06	0.01	1	09/06/17 08:30	09/06/17 21:12	EPA 7471B	1,7471B	EA
Nickel, Total	11.6		mg/kg	1.99	0.193	2	09/06/17 06:00	09/06/17 14:23	EPA 3050B	1,6010C	AB
Potassium, Total	622		mg/kg	199	11.5	2	09/06/17 06:00	09/06/17 14:23	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.59	0.205	2	09/06/17 06:00	09/06/17 14:23	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.796	0.225	2	09/06/17 06:00	09/06/17 14:23	EPA 3050B	1,6010C	AB
Sodium, Total	76.0	J	mg/kg	159	2.51	2	09/06/17 06:00	09/06/17 14:23	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.59	0.251	2	09/06/17 06:00	09/06/17 14:23	EPA 3050B	1,6010C	AB
Vanadium, Total	16.4		mg/kg	0.796	0.162	2	09/06/17 06:00	09/06/17 14:23	EPA 3050B	1,6010C	AB
Zinc, Total	66.6		mg/kg	3.98	0.233	2	09/06/17 06:00	09/06/17 14:23	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12		mg/kg	0.82	0.82	1		09/07/17 09:16	NA	107,-	



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-08
 Client ID: WC04B_COMP_5-10
 Sample Location: BRONX, NY
 Matrix: Soil
 Percent Solids: 97%

Date Collected: 09/01/17 13:51
 Date Received: 09/01/17
 Field Prep: Not Specified
 TCLP/SPLP Ext. Date: 09/04/17 21:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	09/08/17 15:11	09/08/17 20:11	EPA 3015	1,6010C	AB
Barium, TCLP	0.553		mg/l	0.500	0.021	1	09/08/17 15:11	09/08/17 20:11	EPA 3015	1,6010C	AB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	09/08/17 15:11	09/08/17 20:11	EPA 3015	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	09/08/17 15:11	09/08/17 20:11	EPA 3015	1,6010C	AB
Lead, TCLP	0.044	J	mg/l	0.500	0.027	1	09/08/17 15:11	09/08/17 20:11	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	09/07/17 15:27	09/07/17 23:58	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	09/08/17 15:11	09/08/17 20:11	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	09/08/17 15:11	09/08/17 20:11	EPA 3015	1,6010C	AB



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-08
 Client ID: WC04B_COMP_5-10
 Sample Location: BRONX, NY
 Matrix: Soil
 Percent Solids: 97%

Date Collected: 09/01/17 13:51
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7460		mg/kg	7.95	2.15	2	09/06/17 06:00	09/06/17 14:28	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	3.98	0.302	2	09/06/17 06:00	09/06/17 16:06	EPA 3050B	1,6010C	AB
Arsenic, Total	2.30		mg/kg	0.795	0.165	2	09/06/17 06:00	09/06/17 14:28	EPA 3050B	1,6010C	AB
Barium, Total	32.7		mg/kg	0.795	0.138	2	09/06/17 06:00	09/06/17 14:28	EPA 3050B	1,6010C	AB
Beryllium, Total	0.262	J	mg/kg	0.398	0.026	2	09/06/17 06:00	09/06/17 14:28	EPA 3050B	1,6010C	AB
Cadmium, Total	0.310	J	mg/kg	0.795	0.078	2	09/06/17 06:00	09/06/17 14:28	EPA 3050B	1,6010C	AB
Calcium, Total	2310		mg/kg	7.95	2.78	2	09/06/17 06:00	09/06/17 14:28	EPA 3050B	1,6010C	AB
Chromium, Total	12.3		mg/kg	0.795	0.076	2	09/06/17 06:00	09/06/17 14:28	EPA 3050B	1,6010C	AB
Cobalt, Total	5.78		mg/kg	1.59	0.132	2	09/06/17 06:00	09/06/17 14:28	EPA 3050B	1,6010C	AB
Copper, Total	15.0		mg/kg	0.795	0.205	2	09/06/17 06:00	09/06/17 14:28	EPA 3050B	1,6010C	AB
Iron, Total	14200		mg/kg	3.98	0.718	2	09/06/17 06:00	09/06/17 14:28	EPA 3050B	1,6010C	AB
Lead, Total	8.43		mg/kg	3.98	0.213	2	09/06/17 06:00	09/06/17 14:28	EPA 3050B	1,6010C	AB
Magnesium, Total	2870		mg/kg	7.95	1.22	2	09/06/17 06:00	09/06/17 14:28	EPA 3050B	1,6010C	AB
Manganese, Total	323		mg/kg	0.795	0.126	2	09/06/17 06:00	09/06/17 14:28	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.07	0.01	1	09/06/17 08:30	09/06/17 21:14	EPA 7471B	1,7471B	EA
Nickel, Total	11.5		mg/kg	1.99	0.192	2	09/06/17 06:00	09/06/17 14:28	EPA 3050B	1,6010C	AB
Potassium, Total	597		mg/kg	199	11.4	2	09/06/17 06:00	09/06/17 14:28	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.59	0.205	2	09/06/17 06:00	09/06/17 14:28	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.795	0.225	2	09/06/17 06:00	09/06/17 14:28	EPA 3050B	1,6010C	AB
Sodium, Total	66.2	J	mg/kg	159	2.50	2	09/06/17 06:00	09/06/17 14:28	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.59	0.250	2	09/06/17 06:00	09/06/17 14:28	EPA 3050B	1,6010C	AB
Vanadium, Total	14.2		mg/kg	0.795	0.161	2	09/06/17 06:00	09/06/17 14:28	EPA 3050B	1,6010C	AB
Zinc, Total	40.3		mg/kg	3.98	0.233	2	09/06/17 06:00	09/06/17 14:28	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12		mg/kg	0.83	0.83	1		09/07/17 09:16	NA	107,-	



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-09
 Client ID: WC04N_COMP_10-15
 Sample Location: BRONX, NY
 Matrix: Soil
 Percent Solids: 98%

Date Collected: 09/01/17 14:01
 Date Received: 09/01/17
 Field Prep: Not Specified
 TCLP/SPLP Ext. Date: 09/04/17 21:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	09/08/17 15:11	09/08/17 20:30	EPA 3015	1,6010C	AB
Barium, TCLP	0.469	J	mg/l	0.500	0.021	1	09/08/17 15:11	09/08/17 20:30	EPA 3015	1,6010C	AB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	09/08/17 15:11	09/08/17 20:30	EPA 3015	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	09/08/17 15:11	09/08/17 20:30	EPA 3015	1,6010C	AB
Lead, TCLP	ND		mg/l	0.500	0.027	1	09/08/17 15:11	09/08/17 20:30	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	09/07/17 15:27	09/08/17 00:00	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	09/08/17 15:11	09/08/17 20:30	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	09/08/17 15:11	09/08/17 20:30	EPA 3015	1,6010C	AB



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-09
 Client ID: WC04N_COMP_10-15
 Sample Location: BRONX, NY
 Matrix: Soil
 Percent Solids: 98%

Date Collected: 09/01/17 14:01
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6640		mg/kg	7.90	2.13	2	09/06/17 06:00	09/06/17 14:33	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	3.95	0.300	2	09/06/17 06:00	09/06/17 16:10	EPA 3050B	1,6010C	AB
Arsenic, Total	2.20		mg/kg	0.790	0.164	2	09/06/17 06:00	09/06/17 14:33	EPA 3050B	1,6010C	AB
Barium, Total	33.9		mg/kg	0.790	0.137	2	09/06/17 06:00	09/06/17 14:33	EPA 3050B	1,6010C	AB
Beryllium, Total	0.253	J	mg/kg	0.395	0.026	2	09/06/17 06:00	09/06/17 14:33	EPA 3050B	1,6010C	AB
Cadmium, Total	0.276	J	mg/kg	0.790	0.077	2	09/06/17 06:00	09/06/17 14:33	EPA 3050B	1,6010C	AB
Calcium, Total	8680		mg/kg	7.90	2.76	2	09/06/17 06:00	09/06/17 14:33	EPA 3050B	1,6010C	AB
Chromium, Total	10.9		mg/kg	0.790	0.076	2	09/06/17 06:00	09/06/17 14:33	EPA 3050B	1,6010C	AB
Cobalt, Total	5.21		mg/kg	1.58	0.131	2	09/06/17 06:00	09/06/17 14:33	EPA 3050B	1,6010C	AB
Copper, Total	13.3		mg/kg	0.790	0.204	2	09/06/17 06:00	09/06/17 14:33	EPA 3050B	1,6010C	AB
Iron, Total	12500		mg/kg	3.95	0.713	2	09/06/17 06:00	09/06/17 14:33	EPA 3050B	1,6010C	AB
Lead, Total	10.6		mg/kg	3.95	0.212	2	09/06/17 06:00	09/06/17 14:33	EPA 3050B	1,6010C	AB
Magnesium, Total	6900		mg/kg	7.90	1.22	2	09/06/17 06:00	09/06/17 14:33	EPA 3050B	1,6010C	AB
Manganese, Total	279		mg/kg	0.790	0.126	2	09/06/17 06:00	09/06/17 14:33	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.06	0.01	1	09/06/17 08:30	09/06/17 21:15	EPA 7471B	1,7471B	EA
Nickel, Total	10.9		mg/kg	1.97	0.191	2	09/06/17 06:00	09/06/17 14:33	EPA 3050B	1,6010C	AB
Potassium, Total	553		mg/kg	197	11.4	2	09/06/17 06:00	09/06/17 14:33	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.58	0.204	2	09/06/17 06:00	09/06/17 14:33	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.790	0.224	2	09/06/17 06:00	09/06/17 14:33	EPA 3050B	1,6010C	AB
Sodium, Total	73.1	J	mg/kg	158	2.49	2	09/06/17 06:00	09/06/17 14:33	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.58	0.249	2	09/06/17 06:00	09/06/17 14:33	EPA 3050B	1,6010C	AB
Vanadium, Total	13.6		mg/kg	0.790	0.160	2	09/06/17 06:00	09/06/17 14:33	EPA 3050B	1,6010C	AB
Zinc, Total	34.9		mg/kg	3.95	0.231	2	09/06/17 06:00	09/06/17 14:33	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	11		mg/kg	0.82	0.82	1		09/07/17 09:16	NA	107,-	



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-10
 Client ID: WCFB01_090117
 Sample Location: BRONX, NY
 Matrix: Water

Date Collected: 09/01/17 14:15
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.032	1	09/06/17 10:45	09/07/17 15:53	EPA 3005A	1,6010C	AM
Antimony, Total	ND		mg/l	0.050	0.007	1	09/06/17 10:45	09/07/17 15:53	EPA 3005A	1,6010C	AM
Arsenic, Total	0.002	J	mg/l	0.005	0.002	1	09/06/17 10:45	09/07/17 15:53	EPA 3005A	1,6010C	AM
Barium, Total	ND		mg/l	0.010	0.002	1	09/06/17 10:45	09/07/17 15:53	EPA 3005A	1,6010C	AM
Beryllium, Total	ND		mg/l	0.005	0.001	1	09/06/17 10:45	09/07/17 15:53	EPA 3005A	1,6010C	AM
Cadmium, Total	ND		mg/l	0.005	0.001	1	09/06/17 10:45	09/07/17 15:53	EPA 3005A	1,6010C	AM
Calcium, Total	0.095	J	mg/l	0.100	0.035	1	09/06/17 10:45	09/07/17 15:53	EPA 3005A	1,6010C	AM
Chromium, Total	ND		mg/l	0.010	0.002	1	09/06/17 10:45	09/07/17 15:53	EPA 3005A	1,6010C	AM
Cobalt, Total	ND		mg/l	0.020	0.002	1	09/06/17 10:45	09/07/17 15:53	EPA 3005A	1,6010C	AM
Copper, Total	ND		mg/l	0.010	0.002	1	09/06/17 10:45	09/07/17 15:53	EPA 3005A	1,6010C	AM
Iron, Total	ND		mg/l	0.050	0.009	1	09/06/17 10:45	09/08/17 11:36	EPA 3005A	1,6010C	AM
Lead, Total	ND		mg/l	0.010	0.003	1	09/06/17 10:45	09/07/17 15:53	EPA 3005A	1,6010C	AM
Magnesium, Total	ND		mg/l	0.100	0.015	1	09/06/17 10:45	09/07/17 15:53	EPA 3005A	1,6010C	AM
Manganese, Total	0.009	J	mg/l	0.010	0.002	1	09/06/17 10:45	09/07/17 15:53	EPA 3005A	1,6010C	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/05/17 10:50	09/07/17 16:25	EPA 7470A	1,7470A	MG
Nickel, Total	ND		mg/l	0.025	0.002	1	09/06/17 10:45	09/07/17 15:53	EPA 3005A	1,6010C	AM
Potassium, Total	ND		mg/l	2.50	0.237	1	09/06/17 10:45	09/07/17 15:53	EPA 3005A	1,6010C	AM
Selenium, Total	ND		mg/l	0.010	0.004	1	09/06/17 10:45	09/07/17 15:53	EPA 3005A	1,6010C	AM
Silver, Total	ND		mg/l	0.007	0.003	1	09/06/17 10:45	09/07/17 15:53	EPA 3005A	1,6010C	AM
Sodium, Total	ND		mg/l	2.00	0.120	1	09/06/17 10:45	09/07/17 15:53	EPA 3005A	1,6010C	AM
Thallium, Total	ND		mg/l	0.020	0.003	1	09/06/17 10:45	09/07/17 15:53	EPA 3005A	1,6010C	AM
Vanadium, Total	ND		mg/l	0.010	0.002	1	09/06/17 10:45	09/07/17 15:53	EPA 3005A	1,6010C	AM
Zinc, Total	ND		mg/l	0.050	0.002	1	09/06/17 10:45	09/07/17 15:53	EPA 3005A	1,6010C	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		09/07/17 15:53	NA	107,-	



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 10 Batch: WG1038507-1									
Mercury, Total	ND	mg/l	0.00020	0.00006	1	09/05/17 10:50	09/07/17 15:52	1,7470A	MG

Prep Information

Digestion Method: EPA 7470A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
Total Metals - Mansfield Lab for sample(s): 01-03,07-09 Batch: WG1038647-1										
Aluminum, Total	ND	mg/kg	4.00	1.08	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC	
Antimony, Total	ND	mg/kg	2.00	0.152	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC	
Arsenic, Total	ND	mg/kg	0.400	0.083	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC	
Barium, Total	ND	mg/kg	0.400	0.070	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC	
Beryllium, Total	ND	mg/kg	0.200	0.013	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC	
Cadmium, Total	ND	mg/kg	0.400	0.039	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC	
Calcium, Total	ND	mg/kg	4.00	1.40	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC	
Chromium, Total	ND	mg/kg	0.400	0.038	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC	
Cobalt, Total	ND	mg/kg	0.800	0.066	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC	
Copper, Total	ND	mg/kg	0.400	0.103	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC	
Iron, Total	0.480	J	mg/kg	2.00	0.361	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC
Lead, Total	ND	mg/kg	2.00	0.107	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC	
Magnesium, Total	ND	mg/kg	4.00	0.616	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC	
Manganese, Total	ND	mg/kg	0.400	0.064	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC	
Nickel, Total	ND	mg/kg	1.00	0.097	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC	
Potassium, Total	ND	mg/kg	100	5.76	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC	
Selenium, Total	ND	mg/kg	0.800	0.103	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC	
Silver, Total	ND	mg/kg	0.400	0.113	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC	
Sodium, Total	7.06	J	mg/kg	80.0	1.26	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC
Thallium, Total	ND	mg/kg	0.800	0.126	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC	
Vanadium, Total	ND	mg/kg	0.400	0.081	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC	
Zinc, Total	ND	mg/kg	2.00	0.117	1	09/06/17 06:00	09/06/17 11:02	1,6010C	LC	



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03,07-09 Batch: WG1038747-1									
Mercury, Total	ND	mg/kg	0.08	0.02	1	09/06/17 08:30	09/06/17 20:27	1,7471B	EA

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 10 Batch: WG1038868-1									
Aluminum, Total	ND	mg/l	0.100	0.032	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM
Antimony, Total	ND	mg/l	0.050	0.007	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM
Arsenic, Total	0.002 J	mg/l	0.005	0.002	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM
Barium, Total	ND	mg/l	0.010	0.002	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM
Beryllium, Total	ND	mg/l	0.005	0.001	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM
Cadmium, Total	ND	mg/l	0.005	0.001	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM
Calcium, Total	ND	mg/l	0.100	0.035	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM
Chromium, Total	ND	mg/l	0.010	0.002	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM
Cobalt, Total	ND	mg/l	0.020	0.002	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM
Copper, Total	ND	mg/l	0.010	0.002	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM
Iron, Total	ND	mg/l	0.050	0.009	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM
Lead, Total	ND	mg/l	0.010	0.003	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM
Magnesium, Total	ND	mg/l	0.100	0.015	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM
Manganese, Total	ND	mg/l	0.010	0.002	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM
Nickel, Total	ND	mg/l	0.025	0.002	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM
Potassium, Total	ND	mg/l	2.50	0.237	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM
Selenium, Total	ND	mg/l	0.010	0.004	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM
Silver, Total	ND	mg/l	0.007	0.003	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM
Sodium, Total	ND	mg/l	2.00	0.120	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM
Thallium, Total	0.003 J	mg/l	0.020	0.003	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM
Vanadium, Total	ND	mg/l	0.010	0.002	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Zinc, Total	ND	mg/l	0.050	0.002	1	09/06/17 10:45	09/07/17 11:01	1,6010C	AM
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Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-03,07-09 Batch: WG1039423-1									
Mercury, TCLP	ND	mg/l	0.0010	0.0003	1	09/07/17 15:27	09/07/17 23:33	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 09/04/17 21:37

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-03,07-09 Batch: WG1039815-1									
Arsenic, TCLP	ND	mg/l	1.00	0.019	1	09/08/17 15:11	09/08/17 18:34	1,6010C	AB
Barium, TCLP	ND	mg/l	0.500	0.021	1	09/08/17 15:11	09/08/17 18:34	1,6010C	AB
Cadmium, TCLP	ND	mg/l	0.100	0.010	1	09/08/17 15:11	09/08/17 18:34	1,6010C	AB
Chromium, TCLP	ND	mg/l	0.200	0.021	1	09/08/17 15:11	09/08/17 18:34	1,6010C	AB
Lead, TCLP	ND	mg/l	0.500	0.027	1	09/08/17 15:11	09/08/17 18:34	1,6010C	AB
Selenium, TCLP	ND	mg/l	0.500	0.035	1	09/08/17 15:11	09/08/17 18:34	1,6010C	AB
Silver, TCLP	ND	mg/l	0.100	0.028	1	09/08/17 15:11	09/08/17 18:34	1,6010C	AB

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 09/04/17 21:37



Lab Control Sample Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 Batch: WG1038507-2								
Mercury, Total	88		-		80-120	-		



Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Project Number: 170488401

Lab Number: L1731032

Report Date: 09/13/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03,07-09 Batch: WG1038647-2 SRM Lot Number: D093-540					
Aluminum, Total	79	-	55-146	-	
Antimony, Total	185	-	2-204	-	
Arsenic, Total	100	-	70-130	-	
Barium, Total	91	-	83-117	-	
Beryllium, Total	95	-	83-117	-	
Cadmium, Total	94	-	83-117	-	
Calcium, Total	89	-	83-117	-	
Chromium, Total	92	-	80-120	-	
Cobalt, Total	95	-	84-116	-	
Copper, Total	94	-	82-118	-	
Iron, Total	97	-	47-153	-	
Lead, Total	91	-	82-117	-	
Magnesium, Total	80	-	77-124	-	
Manganese, Total	92	-	81-119	-	
Nickel, Total	94	-	83-117	-	
Potassium, Total	84	-	71-129	-	
Selenium, Total	97	-	78-122	-	
Silver, Total	94	-	76-124	-	
Sodium, Total	99	-	72-128	-	
Thallium, Total	94	-	79-121	-	
Vanadium, Total	93	-	78-122	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Project Number: 170488401

Lab Number: L1731032

Report Date: 09/13/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03,07-09 Batch: WG1038647-2 SRM Lot Number: D093-540					
Zinc, Total	94	-	83-117	-	
Total Metals - Mansfield Lab Associated sample(s): 01-03,07-09 Batch: WG1038747-2 SRM Lot Number: D093-540					
Mercury, Total	80	-	72-128	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Project Number: 170488401

Lab Number: L1731032

Report Date: 09/13/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 Batch: WG1038868-2					
Aluminum, Total	112	-	80-120	-	
Antimony, Total	92	-	80-120	-	
Arsenic, Total	114	-	80-120	-	
Barium, Total	100	-	80-120	-	
Beryllium, Total	105	-	80-120	-	
Cadmium, Total	108	-	80-120	-	
Calcium, Total	100	-	80-120	-	
Chromium, Total	104	-	80-120	-	
Cobalt, Total	101	-	80-120	-	
Copper, Total	103	-	80-120	-	
Iron, Total	108	-	80-120	-	
Lead, Total	107	-	80-120	-	
Magnesium, Total	103	-	80-120	-	
Manganese, Total	99	-	80-120	-	
Nickel, Total	102	-	80-120	-	
Potassium, Total	105	-	80-120	-	
Selenium, Total	114	-	80-120	-	
Silver, Total	104	-	80-120	-	
Sodium, Total	104	-	80-120	-	
Thallium, Total	108	-	80-120	-	
Vanadium, Total	105	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Project Number: 170488401

Lab Number: L1731032

Report Date: 09/13/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 Batch: WG1038868-2					
Zinc, Total	106	-	80-120	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-03,07-09 Batch: WG1039423-2					
Mercury, TCLP	110	-	80-120	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-03,07-09 Batch: WG1039815-2					
Arsenic, TCLP	100	-	75-125	-	20
Barium, TCLP	92	-	75-125	-	20
Cadmium, TCLP	98	-	75-125	-	20
Chromium, TCLP	92	-	75-125	-	20
Lead, TCLP	90	-	75-125	-	20
Selenium, TCLP	96	-	75-125	-	20
Silver, TCLP	94	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG1038507-3 QC Sample: L1731026-01 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00170	34	Q	-	-		75-125	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03,07-09 QC Batch ID: WG1038647-3 WG1038647-4 QC Sample: L1731029-01 Client ID: MS Sample									
Aluminum, Total	5980	177	5250	0	Q 4050	0	Q 75-125	26	Q 20
Antimony, Total	1.96J	44.3	47.9	108	41.4	95	75-125	15	20
Arsenic, Total	5.52	10.6	20.9	145	Q 14.7	88	75-125	35	Q 20
Barium, Total	133.	177	388	144	Q 280	84	75-125	32	Q 20
Beryllium, Total	0.283J	4.43	5.06	114	4.30	99	75-125	16	20
Cadmium, Total	1.77	4.52	8.22	143	Q 5.96	94	75-125	32	Q 20
Calcium, Total	28300	886	16500	0	Q 13900	0	Q 75-125	17	20
Chromium, Total	13.7	17.7	39.7	147	Q 31.2	101	75-125	24	Q 20
Cobalt, Total	4.91	44.3	47.7	97	41.0	83	75-125	15	20
Copper, Total	191.	22.1	222	140	Q 121	0	Q 75-125	59	Q 20
Iron, Total	14900	88.6	46800	36000	Q 14800	0	Q 75-125	104	Q 20
Lead, Total	180.	45.2	328	328	Q 249	156	Q 75-125	27	Q 20
Magnesium, Total	1840	886	2800	108	2120	32	Q 75-125	28	Q 20
Manganese, Total	216.	44.3	331	260	Q 176	0	Q 75-125	61	Q 20
Nickel, Total	16.3	44.3	77.8	139	Q 51.1	80	75-125	41	Q 20
Potassium, Total	445.	886	1360	103	1200	87	75-125	13	20
Selenium, Total	ND	10.6	9.78	92	9.81	94	75-125	0	20
Silver, Total	ND	26.6	27.8	105	25.8	99	75-125	7	20
Sodium, Total	142.J	886	1140	129	Q 1010	116	75-125	12	20
Thallium, Total	ND	10.6	9.64	91	8.90	85	75-125	8	20
Vanadium, Total	21.4	44.3	66.0	101	53.8	74	Q 75-125	20	20

Matrix Spike Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits			
Total Metals - Mansfield Lab Associated sample(s): 01-03,07-09 QC Batch ID: WG1038647-3 WG1038647-4 QC Sample: L1731029-01 Client ID: MS Sample												
Zinc, Total	320.	44.3	824	1140	Q	451	301	Q	75-125	59	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01-03,07-09 QC Batch ID: WG1038747-3 WG1038747-4 QC Sample: L1731029-01 Client ID: MS Sample												
Mercury, Total	0.41	0.14	0.43	14	Q	0.37	0	Q	80-120	15		20



Matrix Spike Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG1038868-3 QC Sample: L1730818-02 Client ID: MS Sample									
Aluminum, Total	0.065J	2	2.27	114	-	-	75-125	-	20
Antimony, Total	ND	0.5	0.537	107	-	-	75-125	-	20
Arsenic, Total	0.005	0.12	0.140	112	-	-	75-125	-	20
Barium, Total	0.063	2	2.04	99	-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.051	101	-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.054	106	-	-	75-125	-	20
Calcium, Total	33.7	10	42.6	89	-	-	75-125	-	20
Chromium, Total	0.003J	0.2	0.209	104	-	-	75-125	-	20
Cobalt, Total	0.002J	0.5	0.495	99	-	-	75-125	-	20
Copper, Total	0.012	0.25	0.274	105	-	-	75-125	-	20
Iron, Total	3.63	1	4.58	95	-	-	75-125	-	20
Lead, Total	0.004J	0.51	0.528	104	-	-	75-125	-	20
Magnesium, Total	5.74	10	14.9	92	-	-	75-125	-	20
Manganese, Total	0.307	0.5	0.782	95	-	-	75-125	-	20
Nickel, Total	0.003J	0.5	0.497	99	-	-	75-125	-	20
Potassium, Total	6.75	10	17.6	108	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.139	116	-	-	75-125	-	20
Silver, Total	ND	0.05	0.053	106	-	-	75-125	-	20
Sodium, Total	120.	10	129	90	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.111	92	-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.526	105	-	-	75-125	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG1038868-3 QC Sample: L1730818-02 Client ID: MS Sample									
Zinc, Total	0.014J	0.5	0.536	107	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-03,07-09 QC Batch ID: WG1039423-3 QC Sample: L1730938-03 Client ID: MS Sample									
Mercury, TCLP	ND	0.025	0.0261	104	-	-	80-120	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-03,07-09 QC Batch ID: WG1039815-3 QC Sample: L1730938-03 Client ID: MS Sample									
Arsenic, TCLP	ND	1.2	1.17	98	-	-	75-125	-	20
Barium, TCLP	0.326J	20	18.6	93	-	-	75-125	-	20
Cadmium, TCLP	ND	0.51	0.495	97	-	-	75-125	-	20
Chromium, TCLP	ND	2	1.83	92	-	-	75-125	-	20
Lead, TCLP	ND	5.1	4.56	89	-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.16	97	-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.465	93	-	-	75-125	-	20

Lab Duplicate Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG1038507-4 QC Sample: L1731026-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG1038868-4 QC Sample: L1730818-02 Client ID: DUP Sample						
Iron, Total	3.63	3.80	mg/l	5		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-03,07-09 QC Batch ID: WG1039423-4 QC Sample: L1730938-03 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-03,07-09 QC Batch ID: WG1039815-4 QC Sample: L1730938-03 Client ID: DUP Sample						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	0.326J	0.327J	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20



INORGANICS & MISCELLANEOUS

Project Name: 414 GERARD AVE

Project Number: 170488401

Lab Number: L1731032

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-01
 Client ID: WC03A_COMP_0-6
 Sample Location: BRONX, NY
 Matrix: Soil

Date Collected: 09/01/17 13:31
 Date Received: 09/01/17
 Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
 Description of Material: Non-Metallic - Damp Soil
 Particle Size: Medium
 Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	09/08/17 06:00	1,1030	SB



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-02
 Client ID: WC03B_COMP_6-12
 Sample Location: BRONX, NY
 Matrix: Soil

Date Collected: 09/01/17 13:21
 Date Received: 09/01/17
 Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
 Description of Material: Non-Metallic - Damp Soil
 Particle Size: Medium
 Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	09/08/17 06:00	1,1030	SB



Project Name: 414 GERARD AVE**Project Number:** 170488401**Lab Number:** L1731032**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731032-03
 Client ID: WC03N_COMP_12-28
 Sample Location: BRONX, NY
 Matrix: Soil

Date Collected: 09/01/17 13:15
 Date Received: 09/01/17
 Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
 Description of Material: Non-Metallic - Damp Soil
 Particle Size: Medium
 Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	09/08/17 06:00	1,1030	SB



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-07
Client ID: WC04A_COMP_0-5
Sample Location: BRONX, NY
Matrix: Soil

Date Collected: 09/01/17 13:41
Date Received: 09/01/17
Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Damp Soil
Particle Size: Medium
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	09/08/17 06:00	1,1030	SB



Project Name: 414 GERARD AVE

Project Number: 170488401

Lab Number: L1731032

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-08
 Client ID: WC04B_COMP_5-10
 Sample Location: BRONX, NY
 Matrix: Soil

Date Collected: 09/01/17 13:51
 Date Received: 09/01/17
 Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
 Description of Material: Non-Metallic - Damp Soil
 Particle Size: Medium
 Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	09/08/17 06:00	1,1030	SB



Project Name: 414 GERARD AVE

Project Number: 170488401

Lab Number: L1731032

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-09
 Client ID: WC04N_COMP_10-15
 Sample Location: BRONX, NY
 Matrix: Soil

Date Collected: 09/01/17 14:01
 Date Received: 09/01/17
 Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
 Description of Material: Non-Metallic - Damp Soil
 Particle Size: Medium
 Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	09/08/17 06:00	1,1030	SB



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-01
Client ID: WC03A_COMP_0-6
Sample Location: BRONX, NY
Matrix: Soil

Date Collected: 09/01/17 13:31
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.6		%	0.100	NA	1	-	09/02/17 11:14	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	09/02/17 14:09	09/05/17 10:33	1,9010C/9012B	LH
pH (H)	10.6		SU	-	NA	1	-	09/02/17 07:17	1,9045D	VB
Chromium, Hexavalent	ND		mg/kg	0.83	0.16	1	09/05/17 20:45	09/07/17 09:15	1,7196A	JD
Cyanide, Reactive	ND		mg/kg	10	10.	1	09/07/17 03:45	09/07/17 07:32	1,7.3	JD
Sulfide, Reactive	ND		mg/kg	10	10.	1	09/07/17 03:45	09/07/17 07:44	1,7.3	JD



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-02
Client ID: WC03B_COMP_6-12
Sample Location: BRONX, NY
Matrix: Soil

Date Collected: 09/01/17 13:21
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.2		%	0.100	NA	1	-	09/02/17 11:14	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.95	0.20	1	09/02/17 14:09	09/05/17 10:34	1,9010C/9012B	LH
pH (H)	7.9		SU	-	NA	1	-	09/02/17 07:17	1,9045D	VB
Chromium, Hexavalent	ND		mg/kg	0.83	0.17	1	09/05/17 20:45	09/07/17 09:15	1,7196A	JD
Cyanide, Reactive	ND		mg/kg	10	10.	1	09/07/17 03:45	09/07/17 07:32	1,7.3	JD
Sulfide, Reactive	ND		mg/kg	10	10.	1	09/07/17 03:45	09/07/17 07:44	1,7.3	JD



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-03
Client ID: WC03N_COMP_12-28
Sample Location: BRONX, NY
Matrix: Soil

Date Collected: 09/01/17 13:15
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.8		%	0.100	NA	1	-	09/02/17 11:14	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.98	0.21	1	09/02/17 14:09	09/05/17 10:35	1,9010C/9012B	LH
pH (H)	8.4		SU	-	NA	1	-	09/02/17 07:17	1,9045D	VB
Chromium, Hexavalent	ND		mg/kg	0.83	0.16	1	09/05/17 20:45	09/07/17 09:15	1,7196A	JD
Cyanide, Reactive	ND		mg/kg	10	10.	1	09/07/17 03:45	09/07/17 07:32	1,7.3	JD
Sulfide, Reactive	ND		mg/kg	10	10.	1	09/07/17 03:45	09/07/17 07:44	1,7.3	JD



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-04

Date Collected: 09/01/17 13:35

Client ID: WCB9_0-2

Date Received: 09/01/17

Sample Location: BRONX, NY

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.4		%	0.100	NA	1	-	09/02/17 11:14	121,2540G	RI



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-05

Date Collected: 09/01/17 13:25

Client ID: WCB11_10-12

Date Received: 09/01/17

Sample Location: BRONX, NY

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98.2		%	0.100	NA	1	-	09/02/17 11:14	121,2540G	RI



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-06

Date Collected: 09/01/17 13:10

Client ID: WCB12_26-28

Date Received: 09/01/17

Sample Location: BRONX, NY

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.5		%	0.100	NA	1	-	09/02/17 11:14	121,2540G	RI



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-07
Client ID: WC04A_COMP_0-5
Sample Location: BRONX, NY
Matrix: Soil

Date Collected: 09/01/17 13:41
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.0		%	0.100	NA	1	-	09/02/17 11:14	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.98	0.21	1	09/02/17 14:09	09/05/17 10:36	1,9010C/9012B	LH
pH (H)	10.5		SU	-	NA	1	-	09/02/17 07:17	1,9045D	VB
Chromium, Hexavalent	ND		mg/kg	0.82	0.16	1	09/05/17 20:45	09/07/17 09:16	1,7196A	JD
Cyanide, Reactive	ND		mg/kg	10	10.	1	09/07/17 03:45	09/07/17 07:32	1,7.3	JD
Sulfide, Reactive	ND		mg/kg	10	10.	1	09/07/17 03:45	09/07/17 07:44	1,7.3	JD
Paint Filter Liquid	NEGATIVE		-	0	NA	1	-	09/05/17 17:18	1,9095B	AS



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-08
Client ID: WC04B_COMP_5-10
Sample Location: BRONX, NY
Matrix: Soil

Date Collected: 09/01/17 13:51
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.5		%	0.100	NA	1	-	09/02/17 11:14	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	09/02/17 14:09	09/05/17 10:39	1,9010C/9012B	LH
pH (H)	8.1		SU	-	NA	1	-	09/02/17 07:17	1,9045D	VB
Chromium, Hexavalent	ND		mg/kg	0.83	0.16	1	09/05/17 20:45	09/07/17 09:16	1,7196A	JD
Cyanide, Reactive	ND		mg/kg	10	10.	1	09/07/17 03:45	09/07/17 07:32	1,7.3	JD
Sulfide, Reactive	ND		mg/kg	10	10.	1	09/07/17 03:45	09/07/17 07:44	1,7.3	JD



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-09
Client ID: WC04N_COMP_10-15
Sample Location: BRONX, NY
Matrix: Soil

Date Collected: 09/01/17 14:01
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98.0		%	0.100	NA	1	-	09/02/17 11:14	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.99	0.21	1	09/02/17 14:09	09/05/17 10:40	1,9010C/9012B	LH
pH (H)	9.7		SU	-	NA	1	-	09/02/17 07:17	1,9045D	VB
Chromium, Hexavalent	ND		mg/kg	0.82	0.16	1	09/05/17 20:45	09/07/17 09:16	1,7196A	JD
Cyanide, Reactive	ND		mg/kg	10	10.	1	09/07/17 03:45	09/07/17 07:33	1,7.3	JD
Sulfide, Reactive	ND		mg/kg	10	10.	1	09/07/17 03:45	09/07/17 07:45	1,7.3	JD



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-10
Client ID: WCFB01_090117
Sample Location: BRONX, NY
Matrix: Water

Date Collected: 09/01/17 14:15
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	09/05/17 09:50	09/05/17 14:10	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	09/02/17 05:15	09/02/17 05:22	1,7196A	VB



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-32

Date Collected: 09/01/17 13:55

Client ID: WCB8_5-7

Date Received: 09/01/17

Sample Location: BRONX, NY

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98.9		%	0.100	NA	1	-	09/06/17 07:40	121,2540G	RI



Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-33

Date Collected: 09/01/17 14:00

Client ID: WCB8_13-15

Date Received: 09/01/17

Sample Location: BRONX, NY

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99.3		%	0.100	NA	1	-	09/06/17 07:40	121,2540G	RI



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731032-34
Client ID: WCB10_0-2
Sample Location: BRONX, NY
Matrix: Soil

Date Collected: 09/01/17 13:45
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.6		%	0.100	NA	1	-	09/06/17 07:40	121,2540G	RI



Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 10 Batch: WG1038054-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	09/02/17 05:15	09/02/17 05:21	1,7196A	VB
General Chemistry - Westborough Lab for sample(s): 01-03,07-09 Batch: WG1038150-1										
Cyanide, Total	ND		mg/kg	1.0	0.21	1	09/02/17 13:53	09/05/17 10:05	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 10 Batch: WG1038475-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	09/05/17 09:50	09/05/17 13:41	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01-03,07-09 Batch: WG1038688-1										
Chromium, Hexavalent	ND		mg/kg	0.80	0.16	1	09/05/17 20:45	09/07/17 09:08	1,7196A	JD
General Chemistry - Westborough Lab for sample(s): 01-03,07-09 Batch: WG1039159-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	09/07/17 03:45	09/07/17 07:38	1,7.3	JD
General Chemistry - Westborough Lab for sample(s): 01-03,07-09 Batch: WG1039160-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	09/07/17 03:45	09/07/17 07:27	1,7.3	JD

Lab Control Sample Analysis

Batch Quality Control

Project Name: 414 GERARD AVE

Project Number: 170488401

Lab Number: L1731032

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 10 Batch: WG1038054-2								
Chromium, Hexavalent	98		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03,07-09 Batch: WG1038113-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03,07-09 Batch: WG1038150-2 WG1038150-3								
Cyanide, Total	110		90		80-120	13		35
General Chemistry - Westborough Lab Associated sample(s): 10 Batch: WG1038475-2 WG1038475-3								
Cyanide, Total	94		97		85-115	3		20
General Chemistry - Westborough Lab Associated sample(s): 01-03,07-09 Batch: WG1038688-2								
Chromium, Hexavalent	85		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03,07-09 Batch: WG1039159-2								
Sulfide, Reactive	102		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-03,07-09 Batch: WG1039160-2								
Cyanide, Reactive	72		-		30-125	-		40

Matrix Spike Analysis Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 10 QC Batch ID: WG1038054-4 QC Sample: L1731032-10 Client ID: WCFB01_090117												
Chromium, Hexavalent	ND	0.1	0.101	101	-	-	-	-	85-115	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-03,07-09 QC Batch ID: WG1038150-4 WG1038150-5 QC Sample: L1731029-04 Client ID: MS Sample												
Cyanide, Total	ND	10	9.7	97	9.9	98	98	98	75-125	2	2	35
General Chemistry - Westborough Lab Associated sample(s): 10 QC Batch ID: WG1038475-4 WG1038475-5 QC Sample: L1730636-10 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.188	94	0.180	90	90	90	80-120	4	4	20
General Chemistry - Westborough Lab Associated sample(s): 01-03,07-09 QC Batch ID: WG1038688-4 QC Sample: L1731032-07 Client ID: WC04A_COMP_0-5												
Chromium, Hexavalent	ND	904	880	97	-	-	-	-	75-125	-	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 414 GERARD AVE
Project Number: 170488401

Lab Number: L1731032
Report Date: 09/13/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 10 QC Batch ID: WG1038054-3 QC Sample: L1731032-10 Client ID: WC03A_COMP_0-6						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1038097-1 QC Sample: L1730915-01 Client ID: DUP Sample						
Solids, Total	92.1	91.1	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-03,07-09 QC Batch ID: WG1038113-2 QC Sample: L1731032-01 Client ID: WC03A_COMP_0-6						
pH (H)	10.6	10.8	SU	2		5
General Chemistry - Westborough Lab Associated sample(s): 01-03,07-09 QC Batch ID: WG1038688-6 QC Sample: L1731032-07 Client ID: WC04A_COMP_0-5						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 32-34 QC Batch ID: WG1038792-1 QC Sample: L1729607-04 Client ID: DUP Sample						
Solids, Total	92.5	92.0	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-03,07-09 QC Batch ID: WG1039159-3 QC Sample: L1730971-01 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01-03,07-09 QC Batch ID: WG1039160-3 QC Sample: L1730971-01 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40

Project Name: 414 GERARD AVE

Lab Number: L1731032

Project Number: 170488401

Report Date: 09/13/17

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1731032-01A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1731032-01B	Glass 120ml/4oz unpreserved	B	NA		2.0	Y	Absent		TS(7)
L1731032-01C	Glass 120ml/4oz unpreserved	B	NA		2.0	Y	Absent		IGNIT-1030(14),REACTS(14),TCN-9010(14),PH-9045(1),REACTCN(14),HEXCR-7196(30)
L1731032-01D	Glass 500ml/16oz unpreserved	B	NA		2.0	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1731032-01X	Plastic 120ml HNO3 preserved Extracts	B	NA		2.0	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1731032-01X9	Tumble Vessel	B	NA		2.0	Y	Absent		-
L1731032-02A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1731032-02B	Glass 120ml/4oz unpreserved	B	NA		2.0	Y	Absent		TS(7)
L1731032-02C	Glass 120ml/4oz unpreserved	B	NA		2.0	Y	Absent		IGNIT-1030(14),REACTS(14),TCN-9010(14),PH-9045(1),REACTCN(14),HEXCR-7196(30)
L1731032-02D	Glass 500ml/16oz unpreserved	B	NA		2.0	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1731032-02X	Plastic 120ml HNO3 preserved Extracts	B	NA		2.0	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1731032-02X9	Tumble Vessel	B	NA		2.0	Y	Absent		-

Project Name: 414 GERARD AVE
Project Number: 170488401

Serial_No:09131714:38
Lab Number: L1731032
Report Date: 09/13/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1731032-03A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1731032-03B	Glass 120ml/4oz unpreserved	B	NA		2.0	Y	Absent		TS(7)
L1731032-03C	Glass 120ml/4oz unpreserved	B	NA		2.0	Y	Absent		IGNIT-1030(14),REACTS(14),TCN-9010(14),PH-9045(1),REACTCN(14),HEXCR-7196(30)
L1731032-03D	Glass 500ml/16oz unpreserved	B	NA		2.0	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1731032-03X	Plastic 120ml HNO3 preserved Extracts	B	NA		2.0	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1731032-03X9	Tumble Vessel	B	NA		2.0	Y	Absent		-
L1731032-04A	Vial MeOH preserved	B	NA		2.0	Y	Absent		NYTCL-8260HLW(14)
L1731032-04B	Vial water preserved	B	NA		2.0	Y	Absent	02-SEP-17 04:46	NYTCL-8260HLW(14)
L1731032-04C	Vial water preserved	B	NA		2.0	Y	Absent	02-SEP-17 04:46	NYTCL-8260HLW(14)
L1731032-04D	Plastic 2oz unpreserved for TS	B	NA		2.0	Y	Absent		TS(7)
L1731032-04E	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		NJEPH-TPH-CAT1(14)
L1731032-05A	Vial MeOH preserved	B	NA		2.0	Y	Absent		NYTCL-8260HLW(14)
L1731032-05B	Vial water preserved	B	NA		2.0	Y	Absent	02-SEP-17 04:46	NYTCL-8260HLW(14)
L1731032-05C	Vial water preserved	B	NA		2.0	Y	Absent	02-SEP-17 04:46	NYTCL-8260HLW(14)
L1731032-05D	Plastic 2oz unpreserved for TS	B	NA		2.0	Y	Absent		TS(7)
L1731032-05E	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		NJEPH-TPH-CAT1(14)
L1731032-06A	Vial MeOH preserved	B	NA		2.0	Y	Absent		NYTCL-8260HLW(14)
L1731032-06B	Vial water preserved	B	NA		2.0	Y	Absent	02-SEP-17 04:46	NYTCL-8260HLW(14)
L1731032-06C	Vial water preserved	B	NA		2.0	Y	Absent	02-SEP-17 04:46	NYTCL-8260HLW(14)
L1731032-06D	Plastic 2oz unpreserved for TS	B	NA		2.0	Y	Absent		TS(7)
L1731032-06E	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		NJEPH-TPH-CAT1(14)



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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1731032-07A	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1731032-07B	Vial Large Septa unpreserved (4oz)	C	NA		2.7	Y	Absent		TCLP-EXT-ZHE(14)
L1731032-07C	Glass 120ml/4oz unpreserved	C	NA		2.7	Y	Absent		HEXCR-7196(30)
L1731032-07D	Glass 250ml/8oz unpreserved	C	NA		2.7	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),PAINTF(),NYTCL-8082(14),REACTCN(14)
L1731032-07E	Glass 500ml/16oz unpreserved	C	NA		2.7	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),PAINTF(),NYTCL-8082(14),REACTCN(14)
L1731032-07S	Vial unpreserved Extracts	C	NA		2.7	Y	Absent		TCLP-VOA(14)
L1731032-07T	Vial unpreserved Extracts	C	NA		2.7	Y	Absent		TCLP-VOA(14)
L1731032-07W	Amber 1000ml unpreserved Extracts	C	NA		2.7	Y	Absent		TCLP-8270(14),HERB-TCLP*(14),PEST-TCLP*(14)
L1731032-07X	Plastic 120ml HNO3 preserved Extracts	C	NA		2.7	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1731032-07X9	Tumble Vessel	C	NA		2.7	Y	Absent		-
L1731032-08A	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1731032-08B	Glass 120ml/4oz unpreserved	C	NA		2.7	Y	Absent		TS(7)
L1731032-08C	Glass 120ml/4oz unpreserved	C	NA		2.7	Y	Absent		IGNIT-1030(14),REACTS(14),TCN-9010(14),PH-9045(1),REACTCN(14),HEXCR-7196(30)
L1731032-08D	Glass 500ml/16oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1731032-08X	Plastic 120ml HNO3 preserved Extracts	C	NA		2.7	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1731032-08X9	Tumble Vessel	C	NA		2.7	Y	Absent		-

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L1731032-09A	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1731032-09B	Glass 120ml/4oz unpreserved	C	NA		2.7	Y	Absent		TS(7)
L1731032-09C	Glass 120ml/4oz unpreserved	C	NA		2.7	Y	Absent		IGNIT-1030(14),REACTS(14),TCN-9010(14),PH-9045(1),REACTCN(14),HEXCR-7196(30)
L1731032-09D	Glass 500ml/16oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1731032-09X	Plastic 120ml HNO3 preserved Extracts	C	NA		2.7	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1731032-09X9	Tumble Vessel	C	NA		2.7	Y	Absent		-
L1731032-10A	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L1731032-10B	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L1731032-10C	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L1731032-10D	Plastic 250ml NaOH preserved	A	>12	>12	2.9	Y	Absent		TCN-9010(14)
L1731032-10E	Plastic 250ml HNO3 preserved	A	<2	<2	2.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1731032-10F	Plastic 500ml unpreserved	A	7	7	2.9	Y	Absent		HEXCR-7196(1)
L1731032-10G	Amber 500ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8081(7)
L1731032-10H	Amber 500ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8081(7)
L1731032-10I	Amber 1000ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8082-1200ML(7)
L1731032-10J	Amber 1000ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8082-1200ML(7)
L1731032-10K	Amber 1000ml unpreserved	A	7	7	2.9	Y	Absent		HERB-APA(7)
L1731032-10L	Amber 1000ml unpreserved	A	7	7	2.9	Y	Absent		HERB-APA(7)
L1731032-10M	Amber 1000ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270(7)
L1731032-10N	Amber 1000ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270(7)
L1731032-11A	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		HOLD-METAL(180)

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L1731032-12A	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		HOLD-METAL(180)
L1731032-13A	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		HOLD-METAL(180)
L1731032-14A	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		HOLD-METAL(180)
L1731032-15A	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		HOLD-METAL(180)
L1731032-16A	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		HOLD-METAL(180)
L1731032-17A	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		HOLD-METAL(180)
L1731032-18A	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		HOLD-METAL(180)
L1731032-19A	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		HOLD-METAL(180)
L1731032-20A	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		HOLD-METAL(180)
L1731032-21A	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		HOLD-METAL(180)
L1731032-22A	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		HOLD-METAL(180)
L1731032-23A	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		HOLD-METAL(180)
L1731032-24A	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		HOLD-METAL(180)
L1731032-25A	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		HOLD-METAL(180)
L1731032-26A	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		HOLD-METAL(180)
L1731032-27A	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		HOLD-METAL(180)
L1731032-28A	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		HOLD-METAL(180)
L1731032-29A	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		HOLD-METAL(180)
L1731032-30A	Glass 250ml/8oz unpreserved	B	NA		2.0	Y	Absent		HOLD-METAL(180)
L1731032-31A	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L1731032-31B	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L1731032-32A	Vial MeOH preserved	B	NA		2.0	Y	Absent		NYTCL-8260HLW(14)
L1731032-32B	Vial water preserved	B	NA		2.0	Y	Absent	02-SEP-17 04:46	NYTCL-8260HLW(14)
L1731032-32C	Vial water preserved	B	NA		2.0	Y	Absent	02-SEP-17 04:46	NYTCL-8260HLW(14)
L1731032-32D	Plastic 2oz unpreserved for TS	B	NA		2.0	Y	Absent		TS(7)
L1731032-32E	Glass 120ml/4oz unpreserved	B	NA		2.0	Y	Absent		NJEPH-TPH-CAT1(14)
L1731032-33A	Vial MeOH preserved	B	NA		2.0	Y	Absent		NYTCL-8260HLW(14)
L1731032-33B	Vial water preserved	B	NA		2.0	Y	Absent	02-SEP-17 04:46	NYTCL-8260HLW(14)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1731032-33C	Vial water preserved	B	NA		2.0	Y	Absent	02-SEP-17 04:46	NYTCL-8260HLW(14)
L1731032-33D	Plastic 2oz unpreserved for TS	B	NA		2.0	Y	Absent		TS(7)
L1731032-33E	Glass 120ml/4oz unpreserved	B	NA		2.0	Y	Absent		NJEPH-TPH-CAT1(14)
L1731032-34A	Vial MeOH preserved	B	NA		2.0	Y	Absent		NYTCL-8260HLW(14)
L1731032-34B	Vial water preserved	B	NA		2.0	Y	Absent	02-SEP-17 04:46	NYTCL-8260HLW(14)
L1731032-34C	Vial water preserved	B	NA		2.0	Y	Absent	02-SEP-17 04:46	NYTCL-8260HLW(14)
L1731032-34D	Plastic 2oz unpreserved for TS	B	NA		2.0	Y	Absent		TS(7)
L1731032-34E	Glass 120ml/4oz unpreserved	B	NA		2.0	Y	Absent		NJEPH-TPH-CAT1(14)



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GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

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projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 103 Analysis of Extractable Petroleum Hydrocarbon Compounds (EPH) in Aqueous and Soil/Sediment/Sludge Matrices. New Jersey Department of Environmental Protection, Site Remediation Program, (Version 1.1), Document # NJDEP EPH 10/08, Revision 3, August 2010.
- 107 Alpha Analytical - In-house calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: NPW and SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

EPA 9012B: NPW: Total Cyanide

EPA 9050A: NPW: Specific Conductance

SM3500: NPW: Ferrous Iron

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

SM 2540D: TSS

EPA 3005A NPW

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water

EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water


EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.


EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.


EPA 245.1 Hg.


SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page	Date Rec'd in Lab 9/1/17	ALPHA Job # U731032																																																																																																																																																																															
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Project Information Project Name: 414 Gerard Ave Project Location: BRONX, NY Project #: 170485601			Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #																																																																																																																																																																															
Client Information Client: LINGAN Address: Phone: Fax: Email: mrosers@Langan.com			(Use Project name as Project #) <input type="checkbox"/> Project Manager: Michelle Rogers ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Rush (only if pre approved) <input type="checkbox"/> Due Date: # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																																																																																																																																																														
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 <p>NEW YORK CHAIN OF CUSTODY</p> <p>Westborough, MA 01581 6 Walkup Dr. TEL: 508-856-9220 FAX: 508-856-9193</p> <p>Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288</p>	<p>Service Centers</p> <p>Mahwah, NJ 07430: 35 Whitney Rd, Suite 6 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105</p>	<p>Page _____ of _____</p>	<p>Date Rec'd in Lab 9/11/17</p>	<p>ALPHA Job # L1731032</p>	
	<p>Project Information</p> <p>Project Name: 414 @ 0002 Ave.</p> <p>Project Location: BXNYK, NY</p> <p>Project # 120488-401</p> <p>(Use Project name as Project #) <input type="checkbox"/></p>		<p>Deliverables</p> <p><input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B</p> <p><input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File)</p> <p><input type="checkbox"/> Other</p>		<p>Billing Information</p> <p><input checked="" type="checkbox"/> Same as Client Info</p> <p>PO # _____</p>
<p>Client Information</p> <p>Client: LANIGAN</p> <p>Address: _____</p> <p>Phone: _____</p> <p>Fax: _____</p> <p>Email: M.ROGERS@LANIGAN.COM</p>		<p>Project Manager: Michele Rogers</p> <p>ALPHAQuote #: _____</p> <p>Turn-Around Time</p> <p>Standard <input checked="" type="checkbox"/> Due Date: _____</p> <p>Rush (only if pre approved) <input type="checkbox"/> # of Days: _____</p>		<p>Regulatory Requirement</p> <p><input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375</p> <p><input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51</p> <p><input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other</p> <p><input type="checkbox"/> NY Unrestricted Use</p> <p><input type="checkbox"/> NYC Sewer Discharge</p>	<p>Disposal Site Information</p> <p>Please identify below location of applicable disposal facilities.</p> <p>Disposal Facility:</p> <p><input type="checkbox"/> NJ <input type="checkbox"/> NY</p> <p><input type="checkbox"/> Other: _____</p>
<p>These samples have been previously analyzed by Alpha <input type="checkbox"/></p> <p>Other project specific requirements/comments:</p> <p>Please specify Metals or TAL.</p>		<p>ANALYSIS</p> <p>TOTAL METALS</p>		<p>Sample Filtration</p> <p><input type="checkbox"/> Done</p> <p><input type="checkbox"/> Lab to do</p> <p>Preservation</p> <p><input type="checkbox"/> Lab to do</p> <p>(Please Specify below)</p>	
<p>ALPHA Lab ID (Lab Use Only)</p>	<p>Sample ID</p>	<p>Collection</p> <p>Date Time</p>	<p>Sample Matrix</p>	<p>Sampler's Initials</p>	<p>Sample Specific Comments</p>
31032-11	WCB8-0-1	9/11/17 1336	SO	VL	HOLD ANALYSIS
-12	WCB8-3-4	1337			
-13	WCB7-4-5	1338			
-14	WCB7-3-4	1339			
-15	WCB10-0-1	1340			
-16	WCB10-9-10	1350			
-17	WCB8-8-9	1349			
-18	WCB7-6-7	1346			
-19	WCB7-8-9	1347			
-20	WCB8-9-10	1348			
<p>Preservative Code:</p> <p>A = None B = HCl C = HNO₃ D = H₂SO₄ E = NaOH F = MeOH G = NaHSO₄ H = Na₂S₂O₃ K/E = Zn Ac/NaOH O = Other</p>	<p>Container Code</p> <p>P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle</p>	<p>Westboro: Certification No: MA935 Mansfield: Certification No: MA015</p>	<p>Container Type</p>	<p>Preservative</p>	<p>Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)</p>
<p>Relinquished By: _____</p>		<p>Date/Time: 9/11/17 1555</p>	<p>Received By: Bob Johnson AAC</p>		<p>Date/Time: 9/11/17 15:55</p>
<p>_____</p>		<p>Date/Time: 9/11/17 17:14</p>	<p>_____</p>		<p>Date/Time: 9/11/17 18:00</p>
<p>_____</p>		<p>Date/Time: 9/11/17 20:44</p>	<p>_____</p>		<p>Date/Time: 9/11/17 22:45</p>

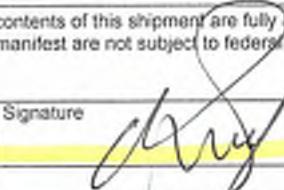
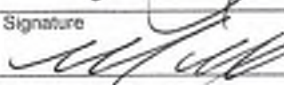
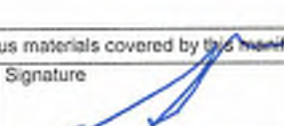
 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-890-9220 FAX: 508-893-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page		Date Rec'd in Lab	9/11/17	ALPHA Job # 11731032
		of					
Client Information Client: LANGAN Address: Phone: Fax: Email: WROGERS@Langan.com		Project Information Project Name: 414 BEARDS AVENUE Project Location: 170488 401 Project # BRONX, NY (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQulS (1 File) <input type="checkbox"/> EQulS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #	
Project Manager: ALPHAQuote #: Turn-Around Time: Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:			
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Please specify Metals or TAL.		ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)		T O T A L B O T T L E	
Please specify Metals or TAL.		TWP metals		Sample Specific Comments			
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection	Sample Matrix	Sampler's Initials			
		Date Time					
31032-21	WCB9-0-1	9/11/17	1326	SO	V2		X
-22	WCB9-3-4		1327				X
-23	WCB12-3-4		1328				X
-24	WCB12-5-6		1325				X
-25	WCB11-2-3		1330				X
-26	WCB12-11-12		1326				X
-27	WCB12-7-8		1317			X	
-28	WCB9-6-1		1318			X	
-29	WCB9-7-8		1319			X	
-30	WCB11-7-8		1320			X	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative	
Relinquished By: <i>[Signature]</i>		Date/Time: 9/11/17 5:55		Received By: <i>[Signature]</i>		Date/Time: 9/11/17 2:25	
Form No: 01-25 HC (rev. 30-Sept-2013)		Date/Time: 9/11/17 2:25		Date/Time: 9/11/17 2:25		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	

	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page of	Date Rec'd in Lab 9/11/17	ALPHA Job # 11731052
	Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288			
Project Information		Project Name: 414 Gerard Ave.		Deliverables	
Project Location: Brook, NY		Project # 170488401		<input type="checkbox"/> ASP-A (VZ1) ASP-B <input type="checkbox"/> EQulS (1 File) <input type="checkbox"/> EQulS (4 File) <input type="checkbox"/> Other	
Client Information		Project Manager: Michele Rogers		Regulatory Requirement	
Client: CANON		ALPHAQuote #:		<input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	
Address:		Turn-Around Time		Disposal Site Information	
Phone:		Standard <input checked="" type="checkbox"/> Due Date:		Please identify below location of applicable disposal facilities.	
Fax:		Rush (only if pre approved) <input type="checkbox"/> # of Days:		Disposal Facility:	
Email: m.rogers@canon.com		These samples have been previously analyzed by Alpha <input type="checkbox"/>		<input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:	
Other project specific requirements/comments:		ANALYSIS		Sample Filtration	
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Preservative Code:		Container Code		Westboro: Certification No: MA935	
A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Mansfield: Certification No: MA015	
Relinquished By:		Date/Time		Received By:	
[Signature]		9/11/17 1555		[Signature]	
Form No: 01-25 HC (rev. 30-Sept-2013)		9/11/17 17:45		9/11/17 1800	
				9/11/17 224	
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)					

APPENDIX I
UST Removal Documents

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No. 1 7 9 7 4 8		2. Page 1 of 1	
3. Generator's Name and Mailing Address Dale Transfer Corp 50 Gear Avenue Lindenhurst, NY 11757			A. Generator's Site Address (if different) 129 Dale Street West Babylon, NY 11704			
4. Generator's Telephone Number (631) 393-2882		6. US EPA ID Number NYR000157644		B. State Transporter's ID		
5. Transporter 1 (Company Name) William J. Lauer Corp.		8. US EPA ID Number		C. Transporter 1 Telephone (718) 981-8500		
7. Transporter 2 (Company Name)		10. US EPA ID Number NY0000968545		D. State Transporter's ID		
9. Designated Facility Name and Site Address Clean Water Of New York, Inc. 3249 Richmond Terrace Staten Island, NY 10303		11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		E. Transporter 2 Telephone ()		
				F. State Facility ID		
				G. Facility Telephone (718) 981-4600		
GENERATOR	12. Containers		13. Total Quantity		14. Unit	
	Number		Type		Wt / Vol	
	a. NON RCRA NON DOT OILY WATER		0 0 1 TT		6142 G	
	b.				H. Waste No. EPA N018	
	c.				STATE	
d.				EPA		
				STATE		
				EPA		
				STATE		
I. Additional Description for Materials listed Above oily water		J. Handling Codes for Wastes Listed Above				
a.		c.		a.		
b.		d.		b.		
15. Special Handling Instructions and Additional Information 24 Hour Emergency Telephone (877)319-0800		Tr/TL # - VAC#5 T 504		Arrival 5:20 Start pump 6:15 Stop pump 7:00 Depart 7:10		
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.						
Printed/Typed Name Aimee Soneku		Signature 		Mo. Day Year 11/21/12		
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials		Signature 		Mo. Day Year 11/21/12	
	Printed/Typed Name Wendy Taylor		Signature		Mo. Day Year	
	18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Mo. Day Year	
Printed/Typed Name		Signature		Mo. Day Year		
FACILITY	19. Discrepancy Indication Space					
	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name Alexian Acosta		Signature 		Mo. Day Year 12/1/12		

ORIGINAL - RETURN TO GENERATOR



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

807189

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and IIIFrida 02/12/2021
DALE Transfer

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: DALE TRANSFER CORP 129 DALE STREET WEST BABYLON, NY 11704 631-383-2882			e. Generator's Mailing Address: DALE TRANSFER CORP 129 DALE STREET WEST BABYLON, NY 11704		
f. Phone: 631-383-2882			g. Phone: WEST BABYLON, NY 11704		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description		m. Containers No.	n. Total Quantity
5081106455	3/1/2021	Consolidated NH Solids		Type	o. Unit Wt/Vol
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Armando Sanchez			q. Signature <i>[Signature]</i>		r. Date 02/12/2021

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Envirostar 110 Rte 109 Lindenhurst NY 11757		
b. Phone:		
c. Driver Name (Print) Ray Lang	d. Signature <i>[Signature]</i>	e. Date 2-12-21

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Conestoga Landfill 420 Quarry Road Morgantown PA 19543 610-273-8600		c. US EPA Number PA00000015867	d. Discrepancy Indication Space: 22.77
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)	f. Signature <i>[Signature]</i>	g. Date 2/13/21	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		i. Date	
h. Signature <i>[Signature]</i>			
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



Ticket #: TKNHIT

Purchased From: CP06WP
AARCO ENVIRONMENTAL SERVICES
50 Gear Ave
Lindenhurst, NY 11757

SHIP DATE: 01/12/21

EMO - Bronx Edgewater, NY
850 Edgewater Road
Bronx, NY 10474

Veh # TK TKNHIT ID # AARCO

SHPMNT#	COMMODITY	GROSS	TARE	NET	ADJ	REASON	PD	WT
TKNHIT #1	HMS Unprepared	40040b	35720b	4320	0			4320
TOTALS				4320	0			4320

ALL WEIGHTS ARE REPORTED IN POUNDS UNLESS OTHERWISE INDICATED. ALL NON-POUND WEIGHTS ARE ASSUMED TO BE MANUAL WEIGHTS

WEIGHMASTER SIGNATURE

(Jose R.)

GRS Date 01/12/21	GROSS TONS
GRS Time 10:29	1.9286
TRE Date 01/12/21	
TRE Time 10:35	

Unassigned

a=SCALE 1 b=SCALE 2 c=SCALE 3 d=SCALE 4 m=MANUAL WEIGHT

In accordance with the Clean Air Act and other applicable laws, seller must sign the Scrap Acceptance Agreement form provided at the scale at least one time every 2 years, which applies to any recyclables in the transaction which may contain or have contained refrigerants or other potential Hazardous Materials.

FOR SALVAGE VEHICLE SALES: I hereby certify, under penalty of perjury that any vehicle sold has been cleared for dismantling with the Department of Motor Vehicles.

HOLD HARMLESS AGREEMENT: Seller will indemnify and hold buyer harmless for damages, demands and liabilities, including reasonable attorney's fees, resulting from the breach of any warranty hereunder and driver agrees to be responsible for damage to vehicle during unloading.

BILL OF SALE: I warrant that I am the owner (or owner's representative) of the material described hereon and have the right to sell same, that it contains no Hazardous Material as defined in the Scrap Acceptance Agreement or otherwise by any federal or state law and that for payment hereby received, I sell and convey title to Sims Metal Management.

CFC VERIFICATION: In partial consideration for Buyer's payment for Commodities, Customer hereby certifies and warrants that all refrigerants (including without limitation chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), or non-exempt refrigerant substitutes (and other non-CFC replacement refrigerants), and all other Class I and II substances, as defined in § 608 of the federal Clean Air Act, as amended, and in 40 Code of Federal Regulations Part 82):

that had not leaked previously, have been properly removed and recovered from those appliances or shipments of appliances (including without limitation motor vehicle air conditioners) delivered to Buyer under this Weighmaster Certificate (Shipment), by the following person:

Name: _____
Address: _____

Date of Removal: _____
or

Had leaked previously from this Shipment.
 This Shipment contained no Commodities ever containing refrigerants.
 Customer signed Buyer's Scrap Acceptance Agreement in the last two years. Presume checked if nothing checked.

CUSTOMER SIGNATURE X





AARCO Environmental Services Corp.

Date: 26-Jan-21

New York City Fire Department
Bureau of Fire Prevention
9 MetroTech Center
Brooklyn, NY 11201

*** AFFIDAVIT ***

Site Location: 414 Gerard Avenue, The Bronx NY 10451
Job Description: Removal of one (1) 3,000 Gallon fuel oil Underground Storage Tank

In accordance with Title 3 RCNY at 21-02 and FDNY Code R3404-01:
I have supervised the permanent removal of: (1) 3,000 Gallon Underground Storage Tank(s) at: 414 Gerard Avenue, The Bronx NY 10451

- Contents of tank(s) were removed and legally disposed of.
- Tanks were thoroughly cleaned and rendered free of combustible vapors.
- All pipes were removed.
- Fill ports were removed/abandoned with concrete/capped.
- Work was performed on: 7-Dec-20
- Tanks was: Removed
- Environmental site assessment has been performed in accordance with the requirements of federal or state law/regulations.

Roger Terlaga

New York City Underground Tank Installer
Certified of License # 85314227, expiration: 7/22/2021

Sworn before me this 26 day of Jan-21

Notary Public

PAMELA PINK
NOTARY PUBLIC-STATE OF NEW YORK
No. 01PI6140141

Qualified in Suffolk County
My Commission Expires 01-23-2022

50 Gear Avenue, Lindenhurst, NY 11757

Phone: (631) 586-5900 Fax: (631) 586-5910



AARCO Environmental Services Corp.

Date: 26-Jan-21

New York City Fire Department
Bureau of Fire Prevention
9 MetroTech Center
Brooklyn, NY 11201

**** AFFIDAVIT ****

Site Location: 414 Gerard Avenue, The Bronx NY 10451
Job Description: Removal of one (1) 3,000 Gallon fuel oil Underground Storage Tank

In accordance with Title 3 RCNY at 21-02 and FDNY Code R3404-01:
I have supervised the permanent removal of: (1) 3,000 Gallon Underground Storage Tank(s) at: 414 Gerard Avenue, The Bronx NY 10451

- Contents of tank(s) were removed and legally disposed of.
- Tanks were thoroughly cleaned and rendered free of combustible vapors.
- All pipes were removed.
- Fill ports were removed/abandoned with concrete/capped.
- Work was performed on: 9-Dec-20
- Tanks was: Removed
- Environmental site assessment has been performed in accordance with the requirements of federal or state law/regulations.

Roger Terlaga

New York City Underground Tank Installer
Certified of License # 85314227, expiration: 7/22/2021

Sworn before me this 26 day of Jan-21

Pamela Pink
Notary Public

PAMELA PINK
NOTARY PUBLIC-STATE OF NEW YORK
No. 01PI6140141
Qualified in Suffolk County
My Commission Expires 01-23-2022

50 Gear Avenue, Lindenhurst, NY 11757 Phone: (631) 586-5900 Fax: (631) 586-5910



Department of
Environmental
Conservation

Bulk Storage Database Search Details

Tank Information

Site No: 2-207209

Site Name: 125 EAST 144 ST HOLDINGS LLC

Tank No: 001

Tank Location: Aboveground in Subterranean vault with access for inspections

Subpart: 4

Category: 1

Tank Status: In Service

Tank Install Date: 07/01/1953

Tank Closed Date:

Tank Out Of Service Date:

Tank Capacity: 3000 gal.

Product Stored: #2 fuel oil (on-site consumption)

Percentage: 100%

Tank Type: 01 - Steel/Carbon Steel/Iron

Tank Internal Protection: None

Tank External Protection: Other

Tank Secondary Containment: Vault (w/o access)

Tank Leak Detection: None

Overfill: Product Level Gauge (A/G)

Spill Prevention: None

Dispenser: Suction Dispenser

Pipe Location: No Piping

Pipe Type: Steel/Carbon Steel/Iron

Pipe External Protection: None

Piping Secondary Containment: None

Piping Leak Detection: Exempt Suction Piping

UDC: Yes

Tank Next Test Due:

Tank Last Test: 03/14/2000

Tank Test Method: Alert Model 1000 plus 1050 (Formerly Gilbarco Precision)

Line Next Test Due:

Line Last Test:

Line Test Method:

Refine This Search

Return To Facility

APPENDIX J
Waste Disposal Documentation Data (CD)
(Included as a separate document)

APPENDIX K
Laboratory Analytical Data Packages (CD)



Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

Attention: Kimberly Semon

Report Date: 08/18/2021

Client Project ID: 170488401

York Project (SDG) No.: 21H0719

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037

New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371



132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 08/18/2021
Client Project ID: 170488401
York Project (SDG) No.: 21H0719

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Kimberly Semon

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 13, 2021 and listed below. The project was identified as your project: **170488401**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

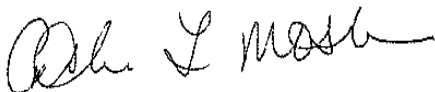
Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21H0719-01	414_EP15_14.5	Soil	08/13/2021	08/13/2021
21H0719-02	414_EP20_17.5	Soil	08/13/2021	08/13/2021
21H0719-03	414_EP10_14.5	Soil	08/13/2021	08/13/2021

General Notes for York Project (SDG) No.: 21H0719

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By



Cassie L. Mosher
Laboratory Manager

Date: 08/18/2021





Sample Information

Client Sample ID: 414_EP15_14.5

York Sample ID: 21H0719-01

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:20 pm	<u>Date Received</u> 08/13/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/17/2021 06:45	08/17/2021 14:23	KHA
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/17/2021 06:45	08/17/2021 14:23	KHA
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.053	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
78-93-3	2-Butanone	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA



Sample Information

Client Sample ID: 414_EP15_14.5

York Sample ID: 21H0719-01

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:20 pm	<u>Date Received</u> 08/13/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
67-64-1	Acetone	0.0089	CCV-E, J	mg/kg dry	0.0053	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
107-02-8	Acrolein	ND		mg/kg dry	0.0053	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA



Sample Information

Client Sample ID: 414_EP15_14.5

York Sample ID: 21H0719-01

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:20 pm	<u>Date Received</u> 08/13/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
75-09-2	Methylene chloride	ND		mg/kg dry	0.0053	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0053	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA



Sample Information

Client Sample ID: 414_EP15_14.5

York Sample ID: 21H0719-01

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:20 pm	<u>Date Received</u> 08/13/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:23	KHA
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0079	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/17/2021 06:45	08/17/2021 14:23	KHA
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	114 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	102 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	100 %			76-130						

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0872	0.174	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0872	0.174	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0872	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH



Sample Information

Client Sample ID: 414_EP15_14.5

York Sample ID: 21H0719-01

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:20 pm	<u>Date Received</u> 08/13/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0872	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0872	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0872	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0872	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0872	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
62-53-3	Aniline	ND		mg/kg dry	0.175	0.349	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
92-87-5	Benzidine	ND		mg/kg dry	0.175	0.349	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
56-55-3	Benzo(a)anthracene	0.0509	J	mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH



Sample Information

Client Sample ID: 414_EP15_14.5

York Sample ID: 21H0719-01

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:20 pm	<u>Date Received</u> 08/13/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	0.0530	J	mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
205-99-2	Benzo(b)fluoranthene	0.0460	J	mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0872	0.174	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
218-01-9	Chrysene	0.0544	J	mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0872	0.174	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
206-44-0	Fluoranthene	0.146		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH



Sample Information

Client Sample ID: 414_EP15_14.5

York Sample ID: 21H0719-01

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:20 pm	<u>Date Received</u> 08/13/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
85-01-8	Phenanthrene	0.126		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
108-95-2	Phenol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
129-00-0	Pyrene	0.116		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH
110-86-1	Pyridine	ND		mg/kg dry	0.175	0.349	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 15:59	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	55.6 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	53.0 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	60.6 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	58.5 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	74.1 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	68.6 %	24-116



Sample Information

Client Sample ID: 414_EP15_14.5

York Sample ID: 21H0719-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21H0719

170488401

Soil

August 13, 2021 3:20 pm

08/13/2021

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.6	1	EPA 8270D SIM Certifications: NELAC-NY10854	08/17/2021 08:16	08/17/2021 11:47	KH
Surrogate Recoveries		Result			Acceptance Range					
17647-74-4	Surrogate: 1,4-Dioxane-d8	50.0 %			39-127.5					

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.240	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 14:42	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.240	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 14:42	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.240	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 14:42	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.240	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 14:42	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.240	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 14:42	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.240	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 14:42	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.240	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 14:42	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.240	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 14:42	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.240	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 14:42	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.240	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 14:42	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.240	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 14:42	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.240	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 14:42	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.240	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 14:42	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.240	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 14:42	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.240	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 14:42	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.240	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 14:42	WL



Sample Information

Client Sample ID: 414_EP15_14.5

York Sample ID: 21H0719-01

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:20 pm	<u>Date Received</u> 08/13/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.240	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 14:42	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.240	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 14:42	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.240	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 14:42	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.240	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 14:42	WL
375-22-4	* Perfluoro-n-butyric acid (PFBA)	ND		ug/kg dry	0.240	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 14:42	WL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	99.5 %	25-150
Surrogate: M5PFHxA	105 %	25-150
Surrogate: M4PFHpA	104 %	25-150
Surrogate: M3PFHxS	103 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic aci	102 %	25-150
Surrogate: M6PFDA	97.6 %	25-150
Surrogate: M7PFUdA	80.7 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	79.3 %	25-150
Surrogate: M2PFTeDA	81.9 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic aci	103 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfo	91.3 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic ac	102 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfo	75.6 %	10-150
Surrogate: d3-N-MeFOSAA	90.9 %	25-150
Surrogate: d5-N-EtFOSAA	83.0 %	25-150
Surrogate: M2-6:2 FTS	88.0 %	25-200
Surrogate: M2-8:2 FTS	187 %	25-200
Surrogate: M9PFNA	104 %	25-150

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:26	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:26	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:26	CM





Sample Information

Client Sample ID: 414_EP15_14.5

York Sample ID: 21H0719-01

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:20 pm	<u>Date Received</u> 08/13/2021
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:26	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:26	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/13/2021 17:22	08/17/2021 08:26	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:26	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:26	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:26	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:26	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/13/2021 17:22	08/17/2021 08:26	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:26	CM
72-20-8	Endrin	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:26	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:26	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:26	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:26	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/13/2021 17:22	08/17/2021 08:26	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:26	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:26	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:26	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:26	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0345	5	EPA 8081B Certifications:	08/13/2021 17:22	08/17/2021 08:26	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	Surrogate: Decachlorobiphenyl	83.0 %	30-150
877-09-8	Surrogate: Tetrachloro-m-xylene	84.9 %	30-150



Sample Information

Client Sample ID: 414_EP15_14.5

York Sample ID: 21H0719-01

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:20 pm	<u>Date Received</u> 08/13/2021
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 01:02	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 01:02	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 01:02	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 01:02	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 01:02	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 01:02	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 01:02	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications:	08/13/2021 17:22	08/17/2021 01:02	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	85.5 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	76.5 %	30-120							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	6610		mg/kg dry	5.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM
7440-36-0	Antimony	ND		mg/kg dry	2.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM
7440-38-2	Arsenic	1.76		mg/kg dry	1.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM
7440-39-3	Barium	37.5		mg/kg dry	2.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.053	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.318	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM
7440-70-2	Calcium	83000	B	mg/kg dry	5.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM
7440-47-3	Chromium	11.3		mg/kg dry	0.530	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM
7440-48-4	Cobalt	5.61		mg/kg dry	0.424	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM



Sample Information

Client Sample ID: 414_EP15_14.5

York Sample ID: 21H0719-01

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:20 pm	<u>Date Received</u> 08/13/2021
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	16.3		mg/kg dry	2.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM
7439-89-6	Iron	9270		mg/kg dry	26.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM
7439-92-1	Lead	6.56		mg/kg dry	0.530	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM
7439-95-4	Magnesium	41600		mg/kg dry	5.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM
7439-96-5	Manganese	223		mg/kg dry	0.530	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM
7440-02-0	Nickel	11.3		mg/kg dry	1.06	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM
7440-09-7	Potassium	1360		mg/kg dry	5.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM
7782-49-2	Selenium	7.63		mg/kg dry	2.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM
7440-22-4	Silver	ND		mg/kg dry	0.530	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM
7440-23-5	Sodium	229		mg/kg dry	53.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM
7440-28-0	Thallium	ND		mg/kg dry	2.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM
7440-62-2	Vanadium	17.5		mg/kg dry	1.06	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM
7440-66-6	Zinc	23.2		mg/kg dry	2.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:19	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0318	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	08/17/2021 12:08	08/17/2021 13:06	BML

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.530	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	08/16/2021 07:44	08/16/2021 16:37	ALH

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: 414_EP15_14.5

York Sample ID: 21H0719-01

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:20 pm	<u>Date Received</u> 08/13/2021
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	11.3		mg/kg	0.500	1	Calculation	08/17/2021 13:14	08/17/2021 17:41	PAM
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.530	1	EPA 9014/9010C	08/16/2021 07:41	08/16/2021 15:14	JAG
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	94.4		%	0.100	1	SM 2540G	08/17/2021 09:06	08/17/2021 16:52	OT
Certifications: CTDOH										



Sample Information

Client Sample ID: 414_EP20_17.5

York Sample ID: 21H0719-02

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:30 pm	<u>Date Received</u> 08/13/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/17/2021 06:45	08/17/2021 14:49	KHA
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/17/2021 06:45	08/17/2021 14:49	KHA
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.053	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA



Sample Information

Client Sample ID: 414_EP20_17.5

York Sample ID: 21H0719-02

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:30 pm	<u>Date Received</u> 08/13/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
67-64-1	Acetone	ND		mg/kg dry	0.0053	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
107-02-8	Acrolein	ND		mg/kg dry	0.0053	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA



Sample Information

Client Sample ID: 414_EP20_17.5

York Sample ID: 21H0719-02

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:30 pm	<u>Date Received</u> 08/13/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
75-09-2	Methylene chloride	ND		mg/kg dry	0.0053	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0053	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA



Sample Information

Client Sample ID: 414_EP20_17.5

York Sample ID: 21H0719-02

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:30 pm	<u>Date Received</u> 08/13/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 14:49	KHA
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0080	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/17/2021 06:45	08/17/2021 14:49	KHA
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	113 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	103 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	99.4 %			76-130						

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0879	0.176	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0879	0.176	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0879	0.176	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH



Sample Information

Client Sample ID: 414_EP20_17.5

York Sample ID: 21H0719-02

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:30 pm	<u>Date Received</u> 08/13/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0879	0.176	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0879	0.176	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0879	0.176	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0879	0.176	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0879	0.176	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
62-53-3	Aniline	ND		mg/kg dry	0.176	0.352	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
92-87-5	Benzidine	ND		mg/kg dry	0.176	0.352	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH



Sample Information

Client Sample ID: 414_EP20_17.5

York Sample ID: 21H0719-02

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:30 pm	<u>Date Received</u> 08/13/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0879	0.176	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0879	0.176	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
206-44-0	Fluoranthene	0.0471	J	mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH



Sample Information

Client Sample ID: 414_EP20_17.5

York Sample ID: 21H0719-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21H0719

170488401

Soil

August 13, 2021 3:30 pm

08/13/2021

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
108-95-2	Phenol	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0441	0.0879	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH
110-86-1	Pyridine	ND		mg/kg dry	0.176	0.352	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 16:29	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: SURR: 2-Fluorophenol	62.4 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	58.6 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	65.4 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	62.6 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	84.1 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	73.2 %	24-116



Sample Information

Client Sample ID: 414_EP20_17.5

York Sample ID: 21H0719-02

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:30 pm	<u>Date Received</u> 08/13/2021
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Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.6	1	EPA 8270D SIM Certifications: NELAC-NY10854	08/17/2021 08:16	08/17/2021 12:05	KH
Surrogate Recoveries		Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	46.0 %	39-127.5							

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.241	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 15:49	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.241	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 15:49	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.241	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 15:49	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.241	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 15:49	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.241	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 15:49	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.241	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 15:49	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.241	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 15:49	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.241	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 15:49	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.241	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 15:49	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.241	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 15:49	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.241	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 15:49	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.241	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 15:49	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.241	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 15:49	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.241	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 15:49	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.241	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 15:49	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.241	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 15:49	WL



Sample Information

Client Sample ID: 414_EP20_17.5

York Sample ID: 21H0719-02

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:30 pm	<u>Date Received</u> 08/13/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.241	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 15:49	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.241	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 15:49	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.241	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 15:49	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.241	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 15:49	WL
375-22-4	* Perfluoro-n-butyric acid (PFBA)	ND		ug/kg dry	0.241	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 15:49	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	96.4 %	25-150
Surrogate: M5PFHxA	51.3 %	25-150
Surrogate: M4PFHpA	94.8 %	25-150
Surrogate: M3PFHxS	95.2 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic aci	97.1 %	25-150
Surrogate: M6PFDA	91.0 %	25-150
Surrogate: M7PFUdA	76.8 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	76.8 %	25-150
Surrogate: M2PFTeDA	78.4 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic aci	99.6 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfor	85.4 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic ac	98.9 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfor	64.7 %	10-150
Surrogate: d3-N-MeFOSAA	79.5 %	25-150
Surrogate: d5-N-EtFOSAA	81.5 %	25-150
Surrogate: M2-6:2 FTS	123 %	25-200
Surrogate: M2-8:2 FTS	173 %	25-200
Surrogate: M9PFNA	98.2 %	25-150

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:43	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:43	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:43	CM



Sample Information

Client Sample ID: 414_EP20_17.5

York Sample ID: 21H0719-02

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:30 pm	<u>Date Received</u> 08/13/2021
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:43	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:43	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/13/2021 17:22	08/17/2021 08:43	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:43	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:43	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:43	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:43	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/13/2021 17:22	08/17/2021 08:43	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:43	CM
72-20-8	Endrin	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:43	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:43	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:43	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:43	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/13/2021 17:22	08/17/2021 08:43	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:43	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:43	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:43	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:43	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0348	5	EPA 8081B Certifications:	08/13/2021 17:22	08/17/2021 08:43	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	71.1 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	65.7 %	30-150							



Sample Information

Client Sample ID: 414_EP20_17.5

York Sample ID: 21H0719-02

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:30 pm	<u>Date Received</u> 08/13/2021
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 01:15	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 01:15	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 01:15	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 01:15	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 01:15	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 01:15	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 01:15	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications:	08/13/2021 17:22	08/17/2021 01:15	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	73.0 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	70.0 %	30-120							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	10200		mg/kg dry	5.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM
7440-36-0	Antimony	ND		mg/kg dry	2.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM
7440-39-3	Barium	24.3		mg/kg dry	2.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.053	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.318	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM
7440-70-2	Calcium	60100	B	mg/kg dry	5.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM
7440-47-3	Chromium	12.7		mg/kg dry	0.530	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM
7440-48-4	Cobalt	5.98		mg/kg dry	0.424	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM



Sample Information

Client Sample ID: 414_EP20_17.5

York Sample ID: 21H0719-02

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:30 pm	<u>Date Received</u> 08/13/2021
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	15.0		mg/kg dry	2.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM
7439-89-6	Iron	10200		mg/kg dry	26.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM
7439-92-1	Lead	3.39		mg/kg dry	0.530	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM
7439-95-4	Magnesium	44400		mg/kg dry	5.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM
7439-96-5	Manganese	217		mg/kg dry	0.530	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM
7440-02-0	Nickel	11.1		mg/kg dry	1.06	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM
7440-09-7	Potassium	756		mg/kg dry	5.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM
7782-49-2	Selenium	5.69		mg/kg dry	2.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM
7440-22-4	Silver	ND		mg/kg dry	0.530	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM
7440-23-5	Sodium	194		mg/kg dry	53.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM
7440-28-0	Thallium	ND		mg/kg dry	2.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM
7440-62-2	Vanadium	19.5		mg/kg dry	1.06	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM
7440-66-6	Zinc	22.1		mg/kg dry	2.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:22	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0318	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	08/17/2021 12:08	08/17/2021 13:15	BML

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.530	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	08/16/2021 07:44	08/16/2021 16:37	ALH

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: 414_EP20_17.5

York Sample ID: 21H0719-02

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:30 pm	<u>Date Received</u> 08/13/2021
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	12.7		mg/kg	0.500	1	Calculation	08/17/2021 13:14	08/17/2021 17:41	PAM
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.530	1	EPA 9014/9010C	08/16/2021 07:41	08/16/2021 15:14	JAG
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	94.3		%	0.100	1	SM 2540G	08/17/2021 09:06	08/17/2021 16:52	OT
Certifications: CTDOH										



Sample Information

Client Sample ID: 414_EP10_14.5

York Sample ID: 21H0719-03

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:40 pm	<u>Date Received</u> 08/13/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/17/2021 06:45	08/17/2021 15:15	KHA
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/17/2021 06:45	08/17/2021 15:15	KHA
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.051	0.10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
78-93-3	2-Butanone	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA



Sample Information

Client Sample ID: 414_EP10_14.5

York Sample ID: 21H0719-03

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:40 pm	<u>Date Received</u> 08/13/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
67-64-1	Acetone	ND		mg/kg dry	0.0051	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
107-02-8	Acrolein	ND		mg/kg dry	0.0051	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA



Sample Information

Client Sample ID: 414_EP10_14.5

York Sample ID: 21H0719-03

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:40 pm	<u>Date Received</u> 08/13/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
75-09-2	Methylene chloride	ND		mg/kg dry	0.0051	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0051	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA



Sample Information

Client Sample ID: 414_EP10_14.5

York Sample ID: 21H0719-03

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:40 pm	<u>Date Received</u> 08/13/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2021 06:45	08/17/2021 15:15	KHA
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0077	0.015	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/17/2021 06:45	08/17/2021 15:15	KHA
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	112 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	102 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	100 %			76-130						

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0845	0.169	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0845	0.169	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0845	0.169	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH



Sample Information

Client Sample ID: 414_EP10_14.5

York Sample ID: 21H0719-03

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:40 pm	<u>Date Received</u> 08/13/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0845	0.169	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0845	0.169	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0845	0.169	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0845	0.169	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0845	0.169	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
62-53-3	Aniline	ND		mg/kg dry	0.169	0.339	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
92-87-5	Benzidine	ND		mg/kg dry	0.169	0.339	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH



Sample Information

Client Sample ID: 414_EP10_14.5

York Sample ID: 21H0719-03

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:40 pm	<u>Date Received</u> 08/13/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0845	0.169	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0845	0.169	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH



Sample Information

Client Sample ID: 414_EP10_14.5

York Sample ID: 21H0719-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21H0719

170488401

Soil

August 13, 2021 3:40 pm

08/13/2021

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
108-95-2	Phenol	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0424	0.0845	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH
110-86-1	Pyridine	ND		mg/kg dry	0.169	0.339	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:30	08/16/2021 14:30	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: SURR: 2-Fluorophenol	74.1 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	69.1 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	79.8 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	74.9 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	99.1 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	87.8 %	24-116



Sample Information

Client Sample ID: 414_EP10_14.5

York Sample ID: 21H0719-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21H0719

170488401

Soil

August 13, 2021 3:40 pm

08/13/2021

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM Certifications: NELAC-NY10854	08/17/2021 08:16	08/17/2021 12:22	KH
Surrogate Recoveries		Result			Acceptance Range					
17647-74-4	Surrogate: 1,4-Dioxane-d8	46.0 %			39-127.5					

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 16:11	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 16:11	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 16:11	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 16:11	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 16:11	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 16:11	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 16:11	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 16:11	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 16:11	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 16:11	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 16:11	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 16:11	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 16:11	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 16:11	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 16:11	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 16:11	WL





Sample Information

Client Sample ID: 414_EP10_14.5

York Sample ID: 21H0719-03

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:40 pm	<u>Date Received</u> 08/13/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 16:11	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 16:11	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 16:11	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 16:11	WL
375-22-4	* Perfluoro-n-butyanoic acid (PFBA)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	08/17/2021 09:54	08/18/2021 16:11	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	53.6 %	25-150
Surrogate: M5PFHxA	64.1 %	25-150
Surrogate: M4PFHpA	101 %	25-150
Surrogate: M3PFHxS	98.5 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic aci	103 %	25-150
Surrogate: M6PFDA	96.5 %	25-150
Surrogate: M7PFUdA	86.8 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	86.2 %	25-150
Surrogate: M2PFTeDA	84.8 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic aci	107 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfo	103 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic ac	107 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfo	77.5 %	10-150
Surrogate: d3-N-MeFOSAA	86.8 %	25-150
Surrogate: d5-N-EtFOSAA	85.0 %	25-150
Surrogate: M2-6:2 FTS	80.1 %	25-200
Surrogate: M2-8:2 FTS	112 %	25-200
Surrogate: M9PFNA	112 %	25-150

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00166	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:59	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00166	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:59	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00166	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:59	CM



Sample Information

Client Sample ID: 414_EP10_14.5

York Sample ID: 21H0719-03

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:40 pm	<u>Date Received</u> 08/13/2021
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00166	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:59	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00166	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:59	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00166	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/13/2021 17:22	08/17/2021 08:59	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00166	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:59	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00166	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:59	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00166	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:59	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00166	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:59	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00166	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/13/2021 17:22	08/17/2021 08:59	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00166	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:59	CM
72-20-8	Endrin	ND		mg/kg dry	0.00166	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:59	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00166	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:59	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00166	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:59	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00166	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:59	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00166	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/13/2021 17:22	08/17/2021 08:59	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00166	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:59	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00166	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:59	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00166	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:59	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.166	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 08:59	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0331	5	EPA 8081B Certifications:	08/13/2021 17:22	08/17/2021 08:59	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	Surrogate: Decachlorobiphenyl	81.4 %	30-150
877-09-8	Surrogate: Tetrachloro-m-xylene	87.1 %	30-150



Sample Information

Client Sample ID: 414_EP10_14.5

York Sample ID: 21H0719-03

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:40 pm	<u>Date Received</u> 08/13/2021
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 01:29	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 01:29	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 01:29	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 01:29	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 01:29	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 01:29	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 17:22	08/17/2021 01:29	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications:	08/13/2021 17:22	08/17/2021 01:29	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	98.5 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	72.0 %	30-120							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	4800		mg/kg dry	5.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM
7440-36-0	Antimony	ND		mg/kg dry	2.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM
7440-38-2	Arsenic	2.49		mg/kg dry	1.54	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM
7440-39-3	Barium	20.8		mg/kg dry	2.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.051	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.307	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM
7440-70-2	Calcium	99700	B	mg/kg dry	5.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM
7440-47-3	Chromium	7.71		mg/kg dry	0.512	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM
7440-48-4	Cobalt	4.85		mg/kg dry	0.410	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM



Sample Information

Client Sample ID: 414_EP10_14.5

York Sample ID: 21H0719-03

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:40 pm	<u>Date Received</u> 08/13/2021
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	14.3		mg/kg dry	2.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM
7439-89-6	Iron	8690		mg/kg dry	25.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM
7439-92-1	Lead	2.71		mg/kg dry	0.512	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM
7439-95-4	Magnesium	54100		mg/kg dry	5.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM
7439-96-5	Manganese	191		mg/kg dry	0.512	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM
7440-02-0	Nickel	10.8		mg/kg dry	1.02	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM
7440-09-7	Potassium	481		mg/kg dry	5.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM
7782-49-2	Selenium	6.64		mg/kg dry	2.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM
7440-22-4	Silver	ND		mg/kg dry	0.512	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM
7440-23-5	Sodium	167		mg/kg dry	51.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM
7440-28-0	Thallium	ND		mg/kg dry	2.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM
7440-62-2	Vanadium	13.0		mg/kg dry	1.02	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM
7440-66-6	Zinc	14.1		mg/kg dry	2.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2021 12:19	08/17/2021 14:25	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0307	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	08/17/2021 12:08	08/17/2021 13:24	BML

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.512	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	08/16/2021 07:44	08/16/2021 16:37	ALH

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: 414_EP10_14.5

York Sample ID: 21H0719-03

<u>York Project (SDG) No.</u> 21H0719	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 13, 2021 3:40 pm	<u>Date Received</u> 08/13/2021
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	7.71		mg/kg	0.500	1	Calculation	08/17/2021 13:14	08/17/2021 17:41	PAM
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.512	1	EPA 9014/9010C	08/16/2021 07:41	08/16/2021 15:14	JAG
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	97.7		%	0.100	1	SM 2540G	08/17/2021 09:06	08/17/2021 16:52	OT
Certifications: CTDOH										



Analytical Batch Summary

Batch ID: BH10767 **Preparation Method:** EPA 3550C **Prepared By:** SJB

YORK Sample ID	Client Sample ID	Preparation Date
21H0719-01	414_EP15_14.5	08/13/21
21H0719-01	414_EP15_14.5	08/13/21
21H0719-02	414_EP20_17.5	08/13/21
21H0719-02	414_EP20_17.5	08/13/21
21H0719-03	414_EP10_14.5	08/13/21
21H0719-03	414_EP10_14.5	08/13/21
BH10767-BLK1	Blank	08/13/21
BH10767-BLK2	Blank	08/13/21
BH10767-BS1	LCS	08/13/21
BH10767-BS2	LCS	08/13/21

Batch ID: BH10768 **Preparation Method:** EPA 3546 SVOA **Prepared By:** SJB

YORK Sample ID	Client Sample ID	Preparation Date
21H0719-01	414_EP15_14.5	08/13/21
21H0719-02	414_EP20_17.5	08/13/21
21H0719-03	414_EP10_14.5	08/13/21
BH10768-MS1	Matrix Spike	08/13/21
BH10768-MSD1	Matrix Spike Dup	08/13/21

Batch ID: BH10776 **Preparation Method:** Analysis Preparation Soil **Prepared By:** JAG

YORK Sample ID	Client Sample ID	Preparation Date
21H0719-01	414_EP15_14.5	08/16/21
21H0719-02	414_EP20_17.5	08/16/21
21H0719-03	414_EP10_14.5	08/16/21
BH10776-BLK1	Blank	08/16/21
BH10776-DUP1	Duplicate	08/16/21
BH10776-MS1	Matrix Spike	08/16/21
BH10776-SRM1	Reference	08/16/21

Batch ID: BH10780 **Preparation Method:** EPA SW846-3060 **Prepared By:** ALH

YORK Sample ID	Client Sample ID	Preparation Date
21H0719-01	414_EP15_14.5	08/16/21
21H0719-02	414_EP20_17.5	08/16/21
21H0719-03	414_EP10_14.5	08/16/21
BH10780-BLK1	Blank	08/16/21
BH10780-DUP1	Duplicate	08/16/21
BH10780-MS1	Matrix Spike	08/16/21
BH10780-MS2	Matrix Spike	08/16/21
BH10780-SRM1	Reference	08/16/21



Batch ID: BH10815

Preparation Method: EPA 3050B

Prepared By: BML

YORK Sample ID	Client Sample ID	Preparation Date
21H0719-01	414_EP15_14.5	08/16/21
21H0719-02	414_EP20_17.5	08/16/21
21H0719-03	414_EP10_14.5	08/16/21
BH10815-BLK1	Blank	08/16/21
BH10815-DUP1	Duplicate	08/16/21
BH10815-MS1	Matrix Spike	08/16/21
BH10815-PS1	Post Spike	08/16/21
BH10815-SRM1	Reference	08/16/21

Batch ID: BH10865

Preparation Method: EPA 3550C

Prepared By: RTH

YORK Sample ID	Client Sample ID	Preparation Date
21H0719-01	414_EP15_14.5	08/17/21
21H0719-02	414_EP20_17.5	08/17/21
21H0719-03	414_EP10_14.5	08/17/21
BH10865-BLK1	Blank	08/17/21
BH10865-BS1	LCS	08/17/21
BH10865-MS1	Matrix Spike	08/17/21
BH10865-MSD1	Matrix Spike Dup	08/17/21

Batch ID: BH10876

Preparation Method: % Solids Prep

Prepared By: OT

YORK Sample ID	Client Sample ID	Preparation Date
21H0719-01	414_EP15_14.5	08/17/21
21H0719-02	414_EP20_17.5	08/17/21
21H0719-03	414_EP10_14.5	08/17/21
BH10876-DUP1	Duplicate	08/17/21

Batch ID: BH10887

Preparation Method: SPE PFAS Extraction-Soil-EPA 537m

Prepared By: WL

YORK Sample ID	Client Sample ID	Preparation Date
21H0719-01	414_EP15_14.5	08/17/21
21H0719-02	414_EP20_17.5	08/17/21
21H0719-03	414_EP10_14.5	08/17/21
BH10887-BLK1	Blank	08/17/21
BH10887-BS1	LCS	08/18/21
BH10887-MS1	Matrix Spike	08/18/21
BH10887-MSD1	Matrix Spike Dup	08/18/21

Batch ID: BH10902

Preparation Method: EPA 7473 soil

Prepared By: BML

YORK Sample ID	Client Sample ID	Preparation Date
21H0719-01	414_EP15_14.5	08/17/21
21H0719-02	414_EP20_17.5	08/17/21
21H0719-03	414_EP10_14.5	08/17/21
BH10902-BLK1	Blank	08/17/21



BH10902-SRM1

Reference

08/17/21

Batch ID: BH10906

Preparation Method: Analysis Preparation

Prepared By: PAM

YORK Sample ID	Client Sample ID	Preparation Date
21H0719-01	414_EP15_14.5	08/17/21
21H0719-02	414_EP20_17.5	08/17/21
21H0719-03	414_EP10_14.5	08/17/21

Batch ID: BH10924

Preparation Method: EPA 5035A

Prepared By: KHA

YORK Sample ID	Client Sample ID	Preparation Date
21H0719-01	414_EP15_14.5	08/17/21
21H0719-02	414_EP20_17.5	08/17/21
21H0719-03	414_EP10_14.5	08/17/21
BH10924-BLK1	Blank	08/17/21
BH10924-BLK2	Blank	08/17/21
BH10924-BS1	LCS	08/17/21
BH10924-BSD1	LCS Dup	08/17/21



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10924 - EPA 5035A

Blank (BH10924-BLK1)	Blank	Prepared & Analyzed: 08/17/2021									
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10924 - EPA 5035A

Blank (BH10924-BLK1) Blank		Prepared & Analyzed: 08/17/2021									
n-Butylbenzene	ND	0.0050	mg/kg wet								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
<hr/>											
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>54.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>108</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>50.8</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>50.1</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>76-130</i>				

Blank (BH10924-BLK2) Holding Blank- 21H0719		Prepared & Analyzed: 08/17/2021									
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10924 - EPA 5035A

Blank (BH10924-BLK2) Holding Blank- 21H0719 Prepared & Analyzed: 08/17/2021

Bromoform	ND	0.0050	mg/kg wet								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								

<i>Surrogate: SURRE: 1,2-Dichloroethane-d4</i>	54.0		ug/L	50.0		108	77-125				
<i>Surrogate: SURRE: Toluene-d8</i>	51.6		"	50.0		103	85-120				
<i>Surrogate: SURRE: p-Bromofluorobenzene</i>	50.6		"	50.0		101	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10924 - EPA 5035A

LCS (BH10924-BS1)	LCS	Prepared & Analyzed: 08/17/2021									
1,1,1,2-Tetrachloroethane	60.8		ug/L	50.0		122	75-129				
1,1,1-Trichloroethane	60.3		"	50.0		121	71-137				
1,1,2,2-Tetrachloroethane	59.1		"	50.0		118	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	59.8		"	50.0		120	58-146				
1,1,2-Trichloroethane	54.1		"	50.0		108	83-123				
1,1-Dichloroethane	51.4		"	50.0		103	75-130				
1,1-Dichloroethylene	61.4		"	50.0		123	64-137				
1,2,3-Trichlorobenzene	55.9		"	50.0		112	81-140				
1,2,3-Trichloropropane	60.9		"	50.0		122	81-126				
1,2,4-Trichlorobenzene	58.3		"	50.0		117	80-141				
1,2,4-Trimethylbenzene	55.7		"	50.0		111	84-125				
1,2-Dibromo-3-chloropropane	69.1		"	50.0		138	74-142				
1,2-Dibromoethane	56.8		"	50.0		114	86-123				
1,2-Dichlorobenzene	54.9		"	50.0		110	85-122				
1,2-Dichloroethane	58.4		"	50.0		117	71-133				
1,2-Dichloropropane	52.0		"	50.0		104	81-122				
1,3,5-Trimethylbenzene	56.2		"	50.0		112	82-126				
1,3-Dichlorobenzene	55.0		"	50.0		110	84-124				
1,4-Dichlorobenzene	54.2		"	50.0		108	84-124				
1,4-Dioxane	1280		"	1050		122	10-228				
2-Butanone	57.6		"	50.0		115	58-147				
2-Hexanone	59.5		"	50.0		119	70-139				
4-Methyl-2-pentanone	58.2		"	50.0		116	72-132				
Acetone	61.2		"	50.0		122	36-155				
Acrolein	35.0		"	50.0		70.0	10-238				
Acrylonitrile	57.5		"	50.0		115	66-141				
Benzene	52.4		"	50.0		105	77-127				
Bromochloromethane	52.2		"	50.0		104	74-129				
Bromodichloromethane	60.1		"	50.0		120	81-124				
Bromoform	56.6		"	50.0		113	80-136				
Bromomethane	97.0		"	50.0		194	32-177	High Bias			
Carbon disulfide	61.2		"	50.0		122	10-136				
Carbon tetrachloride	58.2		"	50.0		116	66-143				
Chlorobenzene	54.1		"	50.0		108	86-120				
Chloroethane	77.5		"	50.0		155	51-142	High Bias			
Chloroform	57.5		"	50.0		115	76-131				
Chloromethane	43.4		"	50.0		86.8	49-132				
cis-1,2-Dichloroethylene	54.8		"	50.0		110	74-132				
cis-1,3-Dichloropropylene	56.8		"	50.0		114	81-129				
Cyclohexane	46.9		"	50.0		93.9	70-130				
Dibromochloromethane	57.1		"	50.0		114	10-200				
Dibromomethane	55.5		"	50.0		111	83-124				
Dichlorodifluoromethane	35.5		"	50.0		70.9	28-158				
Ethyl Benzene	53.8		"	50.0		108	84-125				
Hexachlorobutadiene	58.6		"	50.0		117	83-133				
Isopropylbenzene	55.0		"	50.0		110	81-127				
Methyl acetate	49.5		"	50.0		99.0	41-143				
Methyl tert-butyl ether (MTBE)	56.2		"	50.0		112	74-131				
Methylcyclohexane	49.8		"	50.0		99.6	70-130				
Methylene chloride	50.2		"	50.0		100	57-141				
n-Butylbenzene	60.4		"	50.0		121	80-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BH10924 - EPA 5035A												
LCS (BH10924-BS1)	LCS						Prepared & Analyzed: 08/17/2021					
n-Propylbenzene	54.1		ug/L	50.0		108	74-136					
o-Xylene	53.0		"	50.0		106	83-123					
p- & m- Xylenes	109		"	100		109	82-128					
p-Isopropyltoluene	57.9		"	50.0		116	85-125					
sec-Butylbenzene	58.2		"	50.0		116	83-125					
Styrene	54.5		"	50.0		109	86-126					
tert-Butyl alcohol (TBA)	398		"	250		159	70-130	High Bias				
tert-Butylbenzene	55.8		"	50.0		112	80-127					
Tetrachloroethylene	50.8		"	50.0		102	80-129					
Toluene	52.9		"	50.0		106	85-121					
trans-1,2-Dichloroethylene	55.9		"	50.0		112	72-132					
trans-1,3-Dichloropropylene	52.7		"	50.0		105	78-132					
Trichloroethylene	55.8		"	50.0		112	84-123					
Trichlorofluoromethane	62.6		"	50.0		125	62-140					
Vinyl Chloride	49.6		"	50.0		99.3	52-130					
Surrogate: SURR: 1,2-Dichloroethane-d4	54.7		"	50.0		109	77-125					
Surrogate: SURR: Toluene-d8	50.9		"	50.0		102	85-120					
Surrogate: SURR: p-Bromofluorobenzene	49.5		"	50.0		99.0	76-130					
LCS Dup (BH10924-BSD1)	LCS Dup						Prepared & Analyzed: 08/17/2021					
1,1,1,2-Tetrachloroethane	60.5		ug/L	50.0		121	75-129		0.478	30		
1,1,1-Trichloroethane	60.5		"	50.0		121	71-137		0.331	30		
1,1,2,2-Tetrachloroethane	55.0		"	50.0		110	79-129		7.22	30		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	58.8		"	50.0		118	58-146		1.69	30		
1,1,2-Trichloroethane	53.3		"	50.0		107	83-123		1.55	30		
1,1-Dichloroethane	51.1		"	50.0		102	75-130		0.702	30		
1,1-Dichloroethylene	61.3		"	50.0		123	64-137		0.212	30		
1,2,3-Trichlorobenzene	55.1		"	50.0		110	81-140		1.40	30		
1,2,3-Trichloropropane	56.6		"	50.0		113	81-126		7.34	30		
1,2,4-Trichlorobenzene	56.7		"	50.0		113	80-141		2.84	30		
1,2,4-Trimethylbenzene	54.5		"	50.0		109	84-125		2.22	30		
1,2-Dibromo-3-chloropropane	63.8		"	50.0		128	74-142		7.96	30		
1,2-Dibromoethane	55.4		"	50.0		111	86-123		2.44	30		
1,2-Dichlorobenzene	53.4		"	50.0		107	85-122		2.75	30		
1,2-Dichloroethane	59.2		"	50.0		118	71-133		1.36	30		
1,2-Dichloropropane	50.6		"	50.0		101	81-122		2.71	30		
1,3,5-Trimethylbenzene	55.6		"	50.0		111	82-126		1.15	30		
1,3-Dichlorobenzene	53.2		"	50.0		106	84-124		3.33	30		
1,4-Dichlorobenzene	53.2		"	50.0		106	84-124		1.83	30		
1,4-Dioxane	1140		"	1050		109	10-228		11.2	30		
2-Butanone	53.9		"	50.0		108	58-147		6.62	30		
2-Hexanone	57.0		"	50.0		114	70-139		4.15	30		
4-Methyl-2-pentanone	55.0		"	50.0		110	72-132		5.62	30		
Acetone	57.5		"	50.0		115	36-155		6.21	30		
Acrolein	30.4		"	50.0		60.8	10-238		14.2	30		
Acrylonitrile	52.5		"	50.0		105	66-141		9.02	30		
Benzene	52.0		"	50.0		104	77-127		0.632	30		
Bromochloromethane	50.9		"	50.0		102	74-129		2.43	30		
Bromodichloromethane	59.3		"	50.0		119	81-124		1.31	30		
Bromoform	56.0		"	50.0		112	80-136		0.977	30		
Bromomethane	90.7		"	50.0		181	32-177	High Bias	6.71	30		



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10924 - EPA 5035A											
LCS Dup (BH10924-BSD1)	LCS Dup								Prepared & Analyzed: 08/17/2021		
Carbon disulfide	62.1		ug/L	50.0		124	10-136		1.39	30	
Carbon tetrachloride	58.3		"	50.0		117	66-143		0.120	30	
Chlorobenzene	53.4		"	50.0		107	86-120		1.25	30	
Chloroethane	75.3		"	50.0		151	51-142	High Bias	2.87	30	
Chloroform	56.9		"	50.0		114	76-131		0.979	30	
Chloromethane	44.2		"	50.0		88.3	49-132		1.78	30	
cis-1,2-Dichloroethylene	54.9		"	50.0		110	74-132		0.109	30	
cis-1,3-Dichloropropylene	56.5		"	50.0		113	81-129		0.512	30	
Cyclohexane	46.1		"	50.0		92.1	70-130		1.87	30	
Dibromochloromethane	57.0		"	50.0		114	10-200		0.158	30	
Dibromomethane	54.4		"	50.0		109	83-124		1.98	30	
Dichlorodifluoromethane	35.1		"	50.0		70.1	28-158		1.16	30	
Ethyl Benzene	53.9		"	50.0		108	84-125		0.0743	30	
Hexachlorobutadiene	55.8		"	50.0		112	83-133		4.89	30	
Isopropylbenzene	54.0		"	50.0		108	81-127		1.84	30	
Methyl acetate	46.6		"	50.0		93.1	41-143		6.12	30	
Methyl tert-butyl ether (MTBE)	55.5		"	50.0		111	74-131		1.25	30	
Methylcyclohexane	48.8		"	50.0		97.6	70-130		2.05	30	
Methylene chloride	52.9		"	50.0		106	57-141		5.20	30	
n-Butylbenzene	55.5		"	50.0		111	80-130		8.44	30	
n-Propylbenzene	52.8		"	50.0		106	74-136		2.32	30	
o-Xylene	53.1		"	50.0		106	83-123		0.189	30	
p- & m- Xylenes	109		"	100		109	82-128		0.559	30	
p-Isopropyltoluene	57.0		"	50.0		114	85-125		1.58	30	
sec-Butylbenzene	57.0		"	50.0		114	83-125		2.08	30	
Styrene	53.8		"	50.0		108	86-126		1.24	30	
tert-Butyl alcohol (TBA)	358		"	250		143	70-130	High Bias	10.8	30	
tert-Butylbenzene	54.7		"	50.0		109	80-127		2.03	30	
Tetrachloroethylene	49.4		"	50.0		98.8	80-129		2.72	30	
Toluene	52.9		"	50.0		106	85-121		0.0945	30	
trans-1,2-Dichloroethylene	56.5		"	50.0		113	72-132		1.05	30	
trans-1,3-Dichloropropylene	52.9		"	50.0		106	78-132		0.379	30	
Trichloroethylene	55.1		"	50.0		110	84-123		1.23	30	
Trichlorofluoromethane	59.4		"	50.0		119	62-140		5.31	30	
Vinyl Chloride	47.9		"	50.0		95.8	52-130		3.59	30	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>55.0</i>		<i>"</i>	<i>50.0</i>		<i>110</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>51.2</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>48.6</i>		<i>"</i>	<i>50.0</i>		<i>97.2</i>	<i>76-130</i>				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BH10768 - EPA 3546 SVOA												
Matrix Spike (BH10768-MS1)	Matrix Spike	*Source sample: 21H0719-03 (414_EP10_14.5)						Prepared: 08/13/2021 Analyzed: 08/16/2021				
1,1-Biphenyl	0.539	0.0840	mg/kg dry	0.839	ND	64.2	10-130					
1,2,4,5-Tetrachlorobenzene	0.661	0.168	"	0.839	ND	78.8	10-133					
1,2-Diphenylhydrazine (as Azobenzene)	0.503	0.0840	"	0.839	ND	59.9	10-144					
2,3,4,6-Tetrachlorophenol	0.638	0.168	"	0.839	ND	76.1	30-130					
2,4,5-Trichlorophenol	0.603	0.0840	"	0.839	ND	71.8	10-127					
2,4,6-Trichlorophenol	0.567	0.0840	"	0.839	ND	67.6	10-132					
2,4-Dichlorophenol	0.573	0.0840	"	0.839	ND	68.3	10-128					
2,4-Dimethylphenol	0.561	0.0840	"	0.839	ND	66.9	10-137					
2,4-Dinitrophenol	0.345	0.168	"	0.839	ND	41.1	10-171					
2,4-Dinitrotoluene	0.689	0.0840	"	0.839	ND	82.2	16-135					
2,6-Dinitrotoluene	0.696	0.0840	"	0.839	ND	83.0	18-131					
2-Chloronaphthalene	0.523	0.0840	"	0.839	ND	62.3	10-129					
2-Chlorophenol	0.524	0.0840	"	0.839	ND	62.5	15-116					
2-Methylnaphthalene	0.562	0.0840	"	0.839	ND	67.0	10-147					
2-Methylphenol	0.552	0.0840	"	0.839	ND	65.8	10-136					
2-Nitroaniline	0.620	0.168	"	0.839	ND	73.8	10-137					
2-Nitrophenol	0.700	0.0840	"	0.839	ND	83.4	10-129					
3- & 4-Methylphenols	0.480	0.0840	"	0.839	ND	57.2	10-123					
3,3-Dichlorobenzidine	1.22	0.0840	"	0.839	ND	145	10-155					
3-Nitroaniline	0.602	0.168	"	0.839	ND	71.7	12-133					
4,6-Dinitro-2-methylphenol	0.725	0.168	"	0.839	ND	86.4	10-155					
4-Bromophenyl phenyl ether	0.586	0.0840	"	0.839	ND	69.8	14-128					
4-Chloro-3-methylphenol	0.584	0.0840	"	0.839	ND	69.6	10-134					
4-Chloroaniline	0.486	0.0840	"	0.839	ND	57.9	10-145					
4-Chlorophenyl phenyl ether	0.555	0.0840	"	0.839	ND	66.2	14-130					
4-Nitroaniline	0.573	0.168	"	0.839	ND	68.3	10-147					
4-Nitrophenol	0.579	0.168	"	0.839	ND	69.0	10-137					
Acenaphthene	0.526	0.0840	"	0.839	ND	62.7	10-146					
Acenaphthylene	0.517	0.0840	"	0.839	ND	61.6	10-134					
Acetophenone	0.550	0.0840	"	0.839	ND	65.6	10-116					
Aniline	0.467	0.336	"	0.839	ND	55.7	10-123					
Anthracene	0.586	0.0840	"	0.839	ND	69.8	10-142					
Atrazine	0.695	0.0840	"	0.839	ND	82.8	19-115					
Benzaldehyde	0.560	0.0840	"	0.839	ND	66.7	10-125					
Benzo(a)anthracene	0.585	0.0840	"	0.839	ND	69.7	10-158					
Benzo(a)pyrene	0.638	0.0840	"	0.839	ND	76.0	10-180					
Benzo(b)fluoranthene	0.597	0.0840	"	0.839	ND	71.2	10-200					
Benzo(g,h,i)perylene	0.627	0.0840	"	0.839	ND	74.7	10-138					
Benzo(k)fluoranthene	0.630	0.0840	"	0.839	ND	75.1	10-197					
Benzoic acid	0.0685	0.0840	"	0.839	ND	8.16	10-166	Low Bias				
Benzyl alcohol	0.557	0.0840	"	0.839	ND	66.3	12-124					
Benzyl butyl phthalate	0.590	0.0840	"	0.839	ND	70.3	10-154					
Bis(2-chloroethoxy)methane	0.497	0.0840	"	0.839	ND	59.2	10-132					
Bis(2-chloroethyl)ether	0.508	0.0840	"	0.839	ND	60.6	10-119					
Bis(2-chloroisopropyl)ether	0.436	0.0840	"	0.839	ND	51.9	10-139					
Bis(2-ethylhexyl)phthalate	0.603	0.0840	"	0.839	ND	71.8	10-167					
Caprolactam	0.687	0.168	"	0.839	ND	81.9	10-132					
Carbazole	0.569	0.0840	"	0.839	ND	67.8	10-167					
Chrysene	0.593	0.0840	"	0.839	ND	70.7	10-156					
Dibenzo(a,h)anthracene	0.666	0.0840	"	0.839	ND	79.4	10-137					
Dibenzofuran	0.524	0.0840	"	0.839	ND	62.4	10-147					



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10768 - EPA 3546 SVOA

Matrix Spike (BH10768-MS1)	Matrix Spike	*Source sample: 21H0719-03 (414_EP10_14.5)					Prepared: 08/13/2021 Analyzed: 08/16/2021	
Diethyl phthalate	0.551	0.0840	mg/kg dry	0.839	ND	65.7	20-120	
Dimethyl phthalate	0.545	0.0840	"	0.839	ND	65.0	18-131	
Di-n-butyl phthalate	0.577	0.0840	"	0.839	ND	68.7	10-137	
Di-n-octyl phthalate	0.606	0.0840	"	0.839	ND	72.2	10-180	
Diphenylamine	0.677	0.168	"	0.839	ND	80.7	40-140	
Fluoranthene	0.591	0.0840	"	0.839	ND	70.4	10-160	
Fluorene	0.537	0.0840	"	0.839	ND	64.0	10-157	
Hexachlorobenzene	0.531	0.0840	"	0.839	ND	63.3	10-137	
Hexachlorobutadiene	0.602	0.0840	"	0.839	ND	71.8	10-132	
Hexachlorocyclopentadiene	0.503	0.0840	"	0.839	ND	59.9	10-106	
Hexachloroethane	0.493	0.0840	"	0.839	ND	58.7	10-110	
Indeno(1,2,3-cd)pyrene	0.778	0.0840	"	0.839	ND	92.7	10-144	
Isophorone	0.501	0.0840	"	0.839	ND	59.7	10-132	
Naphthalene	0.538	0.0840	"	0.839	ND	64.1	10-141	
Nitrobenzene	0.538	0.0840	"	0.839	ND	64.2	10-131	
N-Nitrosodimethylamine	0.468	0.0840	"	0.839	ND	55.8	10-126	
N-nitroso-di-n-propylamine	0.466	0.0840	"	0.839	ND	55.5	10-125	
N-Nitrosodiphenylamine	0.666	0.0840	"	0.839	ND	79.4	10-177	
Pentachlorophenol	0.559	0.0840	"	0.839	ND	66.6	10-153	
Phenanthrene	0.552	0.0840	"	0.839	ND	65.8	10-148	
Phenol	0.536	0.0840	"	0.839	ND	63.8	10-126	
Pyrene	0.577	0.0840	"	0.839	ND	68.8	10-165	
Pyridine	0.428	0.336	"	0.839	ND	51.0	10-83	
Surrogate: SURR: 2-Fluorophenol	1.07		"	1.68		63.8	20-108	
Surrogate: SURR: Phenol-d5	1.02		"	1.68		60.5	23-114	
Surrogate: SURR: Nitrobenzene-d5	0.563		"	0.839		67.1	22-108	
Surrogate: SURR: 2-Fluorobiphenyl	0.524		"	0.839		62.5	21-113	
Surrogate: SURR: 2,4,6-Tribromophenol	1.52		"	1.68		90.3	19-110	
Surrogate: SURR: Terphenyl-d14	0.627		"	0.839		74.7	24-116	



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10768 - EPA 3546 SVOA											
Matrix Spike Dup (BH10768-1) Matrix Spike Dup						Source sample: 21H0719-03 (414_EP10_14.5)					
						Prepared: 08/13/2021 Analyzed: 08/16/2021					
1,1-Biphenyl	0.709	0.0840	mg/kg dry	0.839	ND	84.5	10-130		27.2	30	
1,2,4,5-Tetrachlorobenzene	0.847	0.168	"	0.839	ND	101	10-133		24.6	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.629	0.0840	"	0.839	ND	75.0	10-144		22.3	30	
2,3,4,6-Tetrachlorophenol	0.793	0.168	"	0.839	ND	94.5	30-130		21.6	30	
2,4,5-Trichlorophenol	0.751	0.0840	"	0.839	ND	89.4	10-127		21.8	30	
2,4,6-Trichlorophenol	0.765	0.0840	"	0.839	ND	91.1	10-132		29.6	30	
2,4-Dichlorophenol	0.750	0.0840	"	0.839	ND	89.4	10-128		26.7	30	
2,4-Dimethylphenol	0.747	0.0840	"	0.839	ND	89.0	10-137		28.4	30	
2,4-Dinitrophenol	0.503	0.168	"	0.839	ND	59.9	10-171		37.2	30	Non-dir.
2,4-Dinitrotoluene	0.829	0.0840	"	0.839	ND	98.8	16-135		18.4	30	
2,6-Dinitrotoluene	0.861	0.0840	"	0.839	ND	103	18-131		21.2	30	
2-Chloronaphthalene	0.685	0.0840	"	0.839	ND	81.6	10-129		26.8	30	
2-Chlorophenol	0.691	0.0840	"	0.839	ND	82.3	15-116		27.4	30	
2-Methylnaphthalene	0.728	0.0840	"	0.839	ND	86.8	10-147		25.8	30	
2-Methylphenol	0.696	0.0840	"	0.839	ND	83.0	10-136		23.0	30	
2-Nitroaniline	0.779	0.168	"	0.839	ND	92.8	10-137		22.8	30	
2-Nitrophenol	0.904	0.0840	"	0.839	ND	108	10-129		25.4	30	
3- & 4-Methylphenols	0.616	0.0840	"	0.839	ND	73.4	10-123		24.8	30	
3,3-Dichlorobenzidine	1.47	0.0840	"	0.839	ND	175	10-155	High Bias	19.0	30	
3-Nitroaniline	0.728	0.168	"	0.839	ND	86.8	12-133		19.1	30	
4,6-Dinitro-2-methylphenol	0.942	0.168	"	0.839	ND	112	10-155		26.0	30	
4-Bromophenyl phenyl ether	0.748	0.0840	"	0.839	ND	89.1	14-128		24.3	30	
4-Chloro-3-methylphenol	0.716	0.0840	"	0.839	ND	85.3	10-134		20.2	30	
4-Chloroaniline	0.628	0.0840	"	0.839	ND	74.9	10-145		25.5	30	
4-Chlorophenyl phenyl ether	0.693	0.0840	"	0.839	ND	82.6	14-130		22.1	30	
4-Nitroaniline	0.684	0.168	"	0.839	ND	81.5	10-147		17.6	30	
4-Nitrophenol	0.720	0.168	"	0.839	ND	85.8	10-137		21.6	30	
Acenaphthene	0.671	0.0840	"	0.839	ND	80.0	10-146		24.2	30	
Acenaphthylene	0.669	0.0840	"	0.839	ND	79.7	10-134		25.6	30	
Acetophenone	0.720	0.0840	"	0.839	ND	85.8	10-116		26.6	30	
Aniline	0.615	0.336	"	0.839	ND	73.3	10-123		27.3	30	
Anthracene	0.720	0.0840	"	0.839	ND	85.8	10-142		20.5	30	
Atrazine	0.806	0.0840	"	0.839	ND	96.1	19-115		14.8	30	
Benzaldehyde	0.721	0.0840	"	0.839	ND	85.9	10-125		25.2	30	
Benzo(a)anthracene	0.707	0.0840	"	0.839	ND	84.2	10-158		18.9	30	
Benzo(a)pyrene	0.769	0.0840	"	0.839	ND	91.6	10-180		18.6	30	
Benzo(b)fluoranthene	0.741	0.0840	"	0.839	ND	88.3	10-200		21.5	30	
Benzo(g,h,i)perylene	0.747	0.0840	"	0.839	ND	89.0	10-138		17.5	30	
Benzo(k)fluoranthene	0.722	0.0840	"	0.839	ND	86.0	10-197		13.5	30	
Benzoic acid	0.169	0.0840	"	0.839	ND	20.2	10-166		84.7	30	Non-dir.
Benzyl alcohol	0.730	0.0840	"	0.839	ND	87.0	12-124		26.9	30	
Benzyl butyl phthalate	0.725	0.0840	"	0.839	ND	86.4	10-154		20.5	30	
Bis(2-chloroethoxy)methane	0.653	0.0840	"	0.839	ND	77.8	10-132		27.2	30	
Bis(2-chloroethyl)ether	0.640	0.0840	"	0.839	ND	76.3	10-119		23.0	30	
Bis(2-chloroisopropyl)ether	0.565	0.0840	"	0.839	ND	67.3	10-139		25.8	30	
Bis(2-ethylhexyl)phthalate	0.739	0.0840	"	0.839	ND	88.1	10-167		20.3	30	
Caprolactam	0.814	0.168	"	0.839	ND	97.0	10-132		16.9	30	
Carbazole	0.672	0.0840	"	0.839	ND	80.1	10-167		16.7	30	
Chrysene	0.707	0.0840	"	0.839	ND	84.2	10-156		17.4	30	
Dibenzo(a,h)anthracene	0.805	0.0840	"	0.839	ND	95.9	10-137		18.9	30	
Dibenzofuran	0.667	0.0840	"	0.839	ND	79.4	10-147		24.0	30	



Semivolatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10768 - EPA 3546 SVOA											
Matrix Spike Dup (BH10768-1 Matrix Spike Dup) Source sample: 21H0719-03 (414_EP10_14.5)						Prepared: 08/13/2021 Analyzed: 08/16/2021					
Diethyl phthalate	0.665	0.0840	mg/kg dry	0.839	ND	79.3	20-120		18.8	30	
Dimethyl phthalate	0.666	0.0840	"	0.839	ND	79.4	18-131		20.0	30	
Di-n-butyl phthalate	0.688	0.0840	"	0.839	ND	82.0	10-137		17.6	30	
Di-n-octyl phthalate	0.743	0.0840	"	0.839	ND	88.6	10-180		20.3	30	
Diphenylamine	0.820	0.168	"	0.839	ND	97.8	40-140		19.1	30	
Fluoranthene	0.689	0.0840	"	0.839	ND	82.1	10-160		15.3	30	
Fluorene	0.670	0.0840	"	0.839	ND	79.8	10-157		22.0	30	
Hexachlorobenzene	0.638	0.0840	"	0.839	ND	76.0	10-137		18.3	30	
Hexachlorobutadiene	0.765	0.0840	"	0.839	ND	91.1	10-132		23.8	30	
Hexachlorocyclopentadiene	0.702	0.0840	"	0.839	ND	83.6	10-106		33.0	30	Non-dir.
Hexachloroethane	0.625	0.0840	"	0.839	ND	74.5	10-110		23.7	30	
Indeno(1,2,3-cd)pyrene	0.734	0.0840	"	0.839	ND	87.4	10-144		5.86	30	
Isophorone	0.655	0.0840	"	0.839	ND	78.1	10-132		26.7	30	
Naphthalene	0.691	0.0840	"	0.839	ND	82.3	10-141		24.9	30	
Nitrobenzene	0.695	0.0840	"	0.839	ND	82.9	10-131		25.5	30	
N-Nitrosodimethylamine	0.595	0.0840	"	0.839	ND	70.9	10-126		23.9	30	
N-nitroso-di-n-propylamine	0.602	0.0840	"	0.839	ND	71.8	10-125		25.5	30	
N-Nitrosodiphenylamine	0.793	0.0840	"	0.839	ND	94.5	10-177		17.4	30	
Pentachlorophenol	0.742	0.0840	"	0.839	ND	88.5	10-153		28.2	30	
Phenanthrene	0.665	0.0840	"	0.839	ND	79.2	10-148		18.4	30	
Phenol	0.731	0.0840	"	0.839	ND	87.1	10-126		30.8	30	Non-dir.
Pyrene	0.705	0.0840	"	0.839	ND	84.0	10-165		19.9	30	
Pyridine	0.492	0.336	"	0.839	ND	58.6	10-83		13.9	30	
Surrogate: SURR: 2-Fluorophenol	1.40		"	1.68		83.4	20-108				
Surrogate: SURR: Phenol-d5	1.31		"	1.68		77.8	23-114				
Surrogate: SURR: Nitrobenzene-d5	0.716		"	0.839		85.4	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	0.692		"	0.839		82.5	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1.83		"	1.68		109	19-110				
Surrogate: SURR: Terphenyl-d14	0.775		"	0.839		92.3	24-116				



Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BH10865 - EPA 3550C												
Blank (BH10865-BLK1)	Blank								Prepared & Analyzed: 08/17/2021			
1,4-Dioxane	ND	19.8	ug/kg									
Surrogate: 1,4-Dioxane-d8	386		"	495		78.0	39-127.5					
LCS (BH10865-BS1)	LCS								Prepared & Analyzed: 08/17/2021			
1,4-Dioxane	310	19.8	ug/kg	495		62.6	40-130					
Surrogate: 1,4-Dioxane-d8	396		"	495		80.0	39-127.5					
Matrix Spike (BH10865-MS1)	Matrix Spike	*Source sample: 21H0719-02 (414_EP20_17.5)								Prepared & Analyzed: 08/17/2021		
1,4-Dioxane	135	19.8	ug/kg	495	ND	27.2	40-130	Low Bias				
Surrogate: 1,4-Dioxane-d8	762		"	495		154	40-130					
Matrix Spike Dup (BH10865-MS1)	Matrix Spike Dup	*Source sample: 21H0719-02 (414_EP20_17.5)								Prepared & Analyzed: 08/17/2021		
1,4-Dioxane	90.1	19.8	ug/kg	495	ND	18.2	40-130	Low Bias	39.6	30	Non-dir.	
Surrogate: 1,4-Dioxane-d8	1090		"	495		220	40-130					



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10887 - SPE PFAS Extraction-Soil-EPA 537m

Blank (BH10887-BLK1) Blank

Prepared: 08/17/2021 Analyzed: 08/18/2021

Perfluorobutanesulfonic acid (PFBS)	ND	0.235	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.235	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.235	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.235	"								
Perfluorooctanoic acid (PFOA)	ND	0.235	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.235	"								
Perfluorononanoic acid (PFNA)	ND	0.235	"								
Perfluorodecanoic acid (PFDA)	ND	0.235	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.235	"								
Perfluorododecanoic acid (PFDoA)	ND	0.235	"								
Perfluorotridecanoic acid (PFTriDA)	ND	0.235	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.235	"								
N-MeFOSAA	ND	0.235	"								
N-EtFOSAA	ND	0.235	"								
Perfluoropentanoic acid (PFPeA)	ND	0.235	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.235	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.235	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.235	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	ND	0.235	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	ND	0.235	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.235	"								
Surrogate: M3PFBS	4.48		"	4.36		103	25-150				
Surrogate: M5PFHxA	5.12		"	4.69		109	25-150				
Surrogate: M4PFHpA	4.95		"	4.69		105	25-150				
Surrogate: M3PFHxS	4.61		"	4.44		104	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.94		"	4.69		105	25-150				
Surrogate: M6PFDA	4.66		"	4.69		99.3	25-150				
Surrogate: M7PFUdA	4.01		"	4.69		85.5	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	3.76		"	4.69		80.1	25-150				
Surrogate: M2PFTeDA	3.52		"	4.69		74.9	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	5.08		"	4.69		108	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	4.35		"	4.49		96.8	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.90		"	4.69		104	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.84		"	4.69		81.7	10-150				
Surrogate: d3-N-MeFOSAA	3.69		"	4.69		78.7	25-150				
Surrogate: d5-N-EtFOSAA	4.37		"	4.69		93.1	25-150				
Surrogate: M2-6:2 FTS	5.49		"	4.45		123	25-200				
Surrogate: M2-8:2 FTS	5.99		"	4.50		133	25-200				
Surrogate: M9PFNA	4.50		"	4.69		95.9	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10887 - SPE PFAS Extraction-Soil-EPA 537m											
LCS (BH10887-BS1)	LCS	Prepared & Analyzed: 08/18/2021									
Perfluorobutanesulfonic acid (PFBS)	7.90	0.233	ug/kg wet	4.13		192	50-130	High Bias			
Perfluorohexanoic acid (PFHxA)	4.20	0.233	"	4.66		90.1	50-130				
Perfluoroheptanoic acid (PFHpA)	4.51	0.233	"	4.66		96.8	50-130				
Perfluorohexanesulfonic acid (PFHxS)	4.50	0.233	"	4.25		106	50-130				
Perfluorooctanoic acid (PFOA)	4.74	0.233	"	4.66		102	50-130				
Perfluorooctanesulfonic acid (PFOS)	5.09	0.233	"	4.32		118	50-130				
Perfluorononanoic acid (PFNA)	4.38	0.233	"	4.66		93.9	50-130				
Perfluorodecanoic acid (PFDA)	5.01	0.233	"	4.66		107	50-130				
Perfluoroundecanoic acid (PFUnA)	5.15	0.233	"	4.66		110	50-130				
Perfluorododecanoic acid (PFDoA)	4.88	0.233	"	4.66		105	50-130				
Perfluorotridecanoic acid (PFTrDA)	4.84	0.233	"	4.66		104	50-130				
Perfluorotetradecanoic acid (PFTA)	4.99	0.233	"	4.66		107	50-130				
N-MeFOSAA	4.87	0.233	"	4.66		104	50-130				
N-EtFOSAA	5.19	0.233	"	4.66		111	50-130				
Perfluoropentanoic acid (PFPeA)	8.89	0.233	"	4.66		191	50-130	High Bias			
Perfluoro-1-octanesulfonamide (FOSA)	4.81	0.233	"	4.66		103	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.78	0.233	"	4.43		130	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	4.22	0.233	"	4.50		93.9	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	8.70	0.233	"	4.43		196	50-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	9.96	0.233	"	4.48		223	50-200	High Bias			
Perfluoro-n-butanoic acid (PFBA)	4.89	0.233	"	4.66		105	50-130				
Surrogate: M3PFBS	2.58		"	4.33		59.6	25-150				
Surrogate: M5PFHxA	2.95		"	4.66		63.3	25-150				
Surrogate: M4PFHpA	4.82		"	4.66		103	25-150				
Surrogate: M3PFHxS	4.63		"	4.41		105	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.75		"	4.66		102	25-150				
Surrogate: M6PFDA	4.28		"	4.66		91.9	25-150				
Surrogate: M7PFUdA	3.66		"	4.66		78.6	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	3.80		"	4.66		81.6	25-150				
Surrogate: M2PFTeDA	3.62		"	4.66		77.7	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	4.85		"	4.66		104	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	4.07		"	4.46		91.2	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	2.69		"	4.66		57.7	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.45		"	4.66		74.0	10-150				
Surrogate: d3-N-MeFOSAA	4.18		"	4.66		89.6	25-150				
Surrogate: d5-N-EtFOSAA	3.32		"	4.66		71.3	25-150				
Surrogate: M2-6:2 FTS	3.90		"	4.42		88.1	25-200				
Surrogate: M2-8:2 FTS	8.13		"	4.47		182	25-200				
Surrogate: M9PFNA	4.94		"	4.66		106	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10887 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike (BH10887-MS1) Matrix Spike						*Source sample: 21H0719-01 (414_EP15_14.5)					
						Prepared & Analyzed: 08/18/2021					
Perfluorobutanesulfonic acid (PFBS)	4.81	0.251	ug/kg dry	4.43	ND	109	25-150				
Perfluorohexanoic acid (PFHxA)	8.85	0.251	"	5.01	ND	177	25-150	High Bias			
Perfluoroheptanoic acid (PFHpA)	4.89	0.251	"	5.01	ND	97.6	25-150				
Perfluorohexanesulfonic acid (PFHxS)	5.06	0.251	"	4.57	ND	111	25-150				
Perfluorooctanoic acid (PFOA)	5.01	0.251	"	5.01	ND	100	25-150				
Perfluorooctanesulfonic acid (PFOS)	4.72	0.251	"	4.64	ND	102	25-150				
Perfluorononanoic acid (PFNA)	4.74	0.251	"	5.01	ND	94.5	25-150				
Perfluorodecanoic acid (PFDA)	5.11	0.251	"	5.01	ND	102	25-150				
Perfluoroundecanoic acid (PFUnA)	5.41	0.251	"	5.01	ND	108	25-150				
Perfluorododecanoic acid (PFDoA)	5.26	0.251	"	5.01	ND	105	25-150				
Perfluorotridecanoic acid (PFTriDA)	5.18	0.251	"	5.01	ND	103	25-150				
Perfluorotetradecanoic acid (PFTA)	5.36	0.251	"	5.01	ND	107	25-150				
N-MeFOSAA	5.51	0.251	"	5.01	ND	110	25-150				
N-EtFOSAA	5.29	0.251	"	5.01	ND	106	25-150				
Perfluoropentanoic acid (PFPeA)	5.28	0.251	"	5.01	ND	105	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	5.39	0.251	"	5.01	ND	107	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.58	0.251	"	4.76	ND	117	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	4.10	0.251	"	4.84	ND	84.9	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	4.71	0.251	"	4.76	ND	98.9	25-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	10.7	0.251	"	4.81	ND	222	25-200	High Bias			
Perfluoro-n-butanoic acid (PFBA)	5.21	0.251	"	5.01	ND	104	25-150				
Surrogate: M3PFBS	4.45		"	4.65		95.7	25-150				
Surrogate: M5PFHxA	2.76		"	5.01		55.1	25-150				
Surrogate: M4PFHpA	4.90		"	5.01		97.7	25-150				
Surrogate: M3PFHxS	4.45		"	4.74		93.8	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.85		"	5.01		96.9	25-150				
Surrogate: M6PFDA	4.85		"	5.01		96.8	25-150				
Surrogate: M7PFUdA	4.13		"	5.01		82.5	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	3.57		"	5.01		71.2	25-150				
Surrogate: M2PFTeDA	3.82		"	5.01		76.2	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	4.88		"	5.01		97.3	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	4.62		"	4.80		96.4	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.91		"	5.01		98.0	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.90		"	5.01		77.8	10-150				
Surrogate: d3-N-MeFOSAA	4.37		"	5.01		87.3	25-150				
Surrogate: d5-N-EtFOSAA	3.90		"	5.01		77.9	25-150				
Surrogate: M2-6:2 FTS	6.85		"	4.75		144	25-200				
Surrogate: M2-8:2 FTS	7.99		"	4.80		167	25-200				
Surrogate: M9PFNA	5.19		"	5.01		104	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10887 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike Dup (BH10887-1 Matrix Spike Dup) Source sample: 21H0719-01 (414_EP15_14.5)						Prepared & Analyzed: 08/18/2021					
Perfluorobutanesulfonic acid (PFBS)	4.65	0.249	ug/kg dry	4.41	ND	105	25-150		3.39	35	
Perfluorohexanoic acid (PFHxA)	5.14	0.249	"	4.99	ND	103	25-150		53.1	35	Non-dir.
Perfluoroheptanoic acid (PFHpA)	5.13	0.249	"	4.99	ND	103	25-150		4.81	35	
Perfluorohexanesulfonic acid (PFHxS)	4.79	0.249	"	4.55	ND	105	25-150		5.38	35	
Perfluorooctanoic acid (PFOA)	5.00	0.249	"	4.99	ND	100	25-150		0.232	35	
Perfluorooctanesulfonic acid (PFOS)	5.27	0.249	"	4.62	ND	114	25-150		11.1	35	
Perfluorononanoic acid (PFNA)	4.82	0.249	"	4.99	ND	96.7	25-150		1.80	35	
Perfluorodecanoic acid (PFDA)	5.35	0.249	"	4.99	ND	107	25-150		4.74	35	
Perfluoroundecanoic acid (PFUnA)	5.34	0.249	"	4.99	ND	107	25-150		1.25	35	
Perfluorododecanoic acid (PFDoA)	5.07	0.249	"	4.99	ND	102	25-150		3.71	35	
Perfluorotridecanoic acid (PFTriDA)	5.56	0.249	"	4.99	ND	111	25-150		7.08	35	
Perfluorotetradecanoic acid (PFTA)	5.35	0.249	"	4.99	ND	107	25-150		0.0722	35	
N-MeFOSAA	5.47	0.249	"	4.99	ND	110	25-150		0.820	35	
N-EtFOSAA	4.92	0.249	"	4.99	ND	98.7	25-150		7.28	35	
Perfluoropentanoic acid (PFPeA)	5.23	0.249	"	4.99	ND	105	25-150		0.984	35	
Perfluoro-1-octanesulfonamide (FOSA)	5.46	0.249	"	4.99	ND	110	25-150		1.43	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	6.20	0.249	"	4.74	ND	131	25-150		10.4	35	
Perfluoro-1-decanesulfonic acid (PFDS)	4.50	0.249	"	4.81	ND	93.5	25-150		9.27	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	9.79	0.249	"	4.74	ND	207	25-200	High Bias	70.1	35	Non-dir.
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	11.0	0.249	"	4.79	ND	230	25-200	High Bias	2.82	35	
Perfluoro-n-butanoic acid (PFBA)	5.12	0.249	"	4.99	ND	103	25-150		1.70	35	
Surrogate: M3PFBS	4.59		"	4.63		99.1	25-150				
Surrogate: M5PFHxA	2.72		"	4.99		54.5	25-150				
Surrogate: M4PFHpA	4.79		"	4.99		96.0	25-150				
Surrogate: M3PFHxS	4.75		"	4.72		101	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	5.07		"	4.99		102	25-150				
Surrogate: M6PFDA	4.86		"	4.99		97.4	25-150				
Surrogate: M7PFUdA	4.28		"	4.99		85.8	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	4.08		"	4.99		81.9	25-150				
Surrogate: M2PFTeDA	4.19		"	4.99		84.1	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	5.12		"	4.99		103	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	4.30		"	4.77		90.2	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.93		"	4.99		98.8	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.80		"	4.99		76.3	10-150				
Surrogate: d3-N-MeFOSAA	5.08		"	4.99		102	25-150				
Surrogate: d5-N-EtFOSAA	4.93		"	4.99		98.8	25-150				
Surrogate: M2-6:2 FTS	8.52		"	4.73		180	25-200				
Surrogate: M2-8:2 FTS	14.5		"	4.78		304	25-200				
Surrogate: M9PFNA	4.91		"	4.99		98.4	25-150				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10767 - EPA 3550C

Blank (BH10767-BLK1)	Blank	Prepared: 08/13/2021 Analyzed: 08/17/2021									
4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								

Surrogate: Decachlorobiphenyl	0.0502		"	0.0664		75.5	30-150				
Surrogate: Tetrachloro-m-xylene	0.0529		"	0.0664		79.6	30-150				

LCS (BH10767-BS1)	LCS	Prepared: 08/13/2021 Analyzed: 08/17/2021									
4,4'-DDD	0.0326	0.00164	mg/kg wet	0.0332		98.3	40-140				
4,4'-DDE	0.0191	0.00164	"	0.0332		57.5	40-140				
4,4'-DDT	0.0248	0.00164	"	0.0332		74.8	40-140				
Aldrin	0.0369	0.00164	"	0.0332		111	40-140				
alpha-BHC	0.0331	0.00164	"	0.0332		99.6	40-140				
alpha-Chlordane	0.0360	0.00164	"	0.0332		108	40-140				
beta-BHC	0.0353	0.00164	"	0.0332		106	40-140				
delta-BHC	0.0330	0.00164	"	0.0332		99.2	40-140				
Dieldrin	0.0383	0.00164	"	0.0332		115	40-140				
Endosulfan I	0.0435	0.00164	"	0.0332		131	40-140				
Endosulfan II	0.0421	0.00164	"	0.0332		127	40-140				
Endosulfan sulfate	0.0337	0.00164	"	0.0332		101	40-140				
Endrin	0.0316	0.00164	"	0.0332		95.2	40-140				
Endrin aldehyde	0.0346	0.00164	"	0.0332		104	40-140				
Endrin ketone	0.0365	0.00164	"	0.0332		110	40-140				
gamma-BHC (Lindane)	0.0334	0.00164	"	0.0332		100	40-140				
gamma-Chlordane	0.0364	0.00164	"	0.0332		109	40-140				
Heptachlor	0.0401	0.00164	"	0.0332		121	40-140				
Heptachlor epoxide	0.0381	0.00164	"	0.0332		115	40-140				
Methoxychlor	0.0195	0.00164	"	0.0332		58.8	40-140				

Surrogate: Decachlorobiphenyl	0.0537		"	0.0664		80.9	30-150				
Surrogate: Tetrachloro-m-xylene	0.0563		"	0.0664		84.7	30-150				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch Y1G1207 - BE10937

Performance Mix (Y1G1207-F Performance Mix)							Prepared & Analyzed: 07/09/2021				
4,4'-DDD	9.58		ng/mL	0.00			0-200				
4,4'-DDE	1.13		"	0.00			0-200				
4,4'-DDT	143		"	200		71.4	0-200				
Endrin	88.9		"	100		88.9	0-200				
Endrin aldehyde	1.40		"	0.00			0-200				
Endrin ketone	4.35		"	0.00			0-200				

Batch Y1H1814 - BH10662

Performance Mix (Y1H1814-F Performance Mix)							Prepared & Analyzed: 08/17/2021				
4,4'-DDD	14.7		ng/mL	0.00			0-200				
4,4'-DDE	2.46		"	0.00			0-200				
4,4'-DDT	242		"	200		121	0-200				
Endrin	141		"	100		141	0-200				
Endrin aldehyde	2.96		"	0.00			0-200				
Endrin ketone	10.4		"	0.00			0-200				

Performance Mix (Y1H1814-F Performance Mix)							Prepared & Analyzed: 08/17/2021				
4,4'-DDD	22.2		ng/mL	0.00			0-200				
4,4'-DDE	3.27		"	0.00			0-200				
4,4'-DDT	196		"	200		98.1	0-200				
Endrin	137		"	100		137	0-200				
Endrin aldehyde	3.14		"	0.00			0-200				
Endrin ketone	19.2		"	0.00			0-200				



Polychlorinated Biphenyls by GC/ECD - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD	
										Limit	Flag

Batch BH10767 - EPA 3550C

Blank (BH10767-BLK2)		Blank		Prepared: 08/13/2021 Analyzed: 08/16/2021								
Aroclor 1016	ND	0.0166	mg/kg wet									
Aroclor 1221	ND	0.0166	"									
Aroclor 1232	ND	0.0166	"									
Aroclor 1242	ND	0.0166	"									
Aroclor 1248	ND	0.0166	"									
Aroclor 1254	ND	0.0166	"									
Aroclor 1260	ND	0.0166	"									
Total PCBs	ND	0.0166	"									
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0654</i>		"	<i>0.0664</i>		<i>98.5</i>	<i>30-120</i>					
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0475</i>		"	<i>0.0664</i>		<i>71.5</i>	<i>30-120</i>					

LCS (BH10767-BS2)		LCS		Prepared: 08/13/2021 Analyzed: 08/16/2021								
Aroclor 1016	0.401	0.0166	mg/kg wet	0.332		121	40-130					
Aroclor 1260	0.378	0.0166	"	0.332		114	40-130					
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0684</i>		"	<i>0.0664</i>		<i>103</i>	<i>30-120</i>					
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0502</i>		"	<i>0.0664</i>		<i>75.5</i>	<i>30-120</i>					

Batch Y1H1641 - BH10767

Aroclor Reference (Y1H1641- Aroclor Reference)		Prepared & Analyzed: 08/16/2021										
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.192</i>		<i>ug/mL</i>	<i>0.200</i>		<i>96.0</i>						
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.190</i>		"	<i>0.200</i>		<i>95.0</i>						



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10815 - EPA 3050B

Blank (BH10815-BLK1)	Blank	Prepared: 08/16/2021 Analyzed: 08/17/2021									
Aluminum	ND	5.00	mg/kg wet								
Antimony	ND	2.50	"								
Arsenic	ND	1.50	"								
Barium	ND	2.50	"								
Beryllium	ND	0.050	"								
Cadmium	ND	0.300	"								
Calcium	10.1	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.400	"								
Copper	ND	2.00	"								
Iron	ND	25.0	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	1.00	"								
Potassium	ND	5.00	"								
Selenium	ND	2.50	"								
Silver	ND	0.500	"								
Sodium	ND	50.0	"								
Thallium	ND	2.50	"								
Vanadium	ND	1.00	"								
Zinc	ND	2.50	"								

Duplicate (BH10815-DUP1)	Duplicate	*Source sample: 21H0719-03 (414_EP10_14.5) Prepared: 08/16/2021 Analyzed: 08/17/2021									
Aluminum	4730	5.12	mg/kg dry	4800				1.49	35		
Antimony	ND	2.56	"	ND					35		
Arsenic	2.90	1.54	"	2.49				15.1	35		
Barium	22.3	2.56	"	20.8				7.19	35		
Beryllium	ND	0.051	"	ND					35		
Cadmium	ND	0.307	"	ND					35		
Calcium	74600	5.12	"	99700				28.7	35		
Chromium	8.22	0.512	"	7.71				6.35	35		
Cobalt	10.4	0.410	"	4.85				73.0	35	Non-dir.	
Copper	14.4	2.05	"	14.3				0.575	35		
Iron	10800	25.6	"	8690				21.9	35		
Lead	2.34	0.512	"	2.71				14.9	35		
Magnesium	41900	5.12	"	54100				25.3	35		
Manganese	201	0.512	"	191				5.27	35		
Nickel	10.4	1.02	"	10.8				3.03	35		
Potassium	691	5.12	"	481				35.8	35	Non-dir.	
Selenium	6.52	2.56	"	6.64				1.80	35		
Silver	ND	0.512	"	ND					35		
Sodium	128	51.2	"	167				26.3	35		
Thallium	ND	2.56	"	ND					35		
Vanadium	13.8	1.02	"	13.0				5.84	35		
Zinc	18.6	2.56	"	14.1				27.3	35		



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10815 - EPA 3050B

Matrix Spike (BH10815-MS1)	Matrix Spike	*Source sample: 21H0719-03 (414_EP10_14.5)					Prepared: 08/16/2021 Analyzed: 08/17/2021				
Aluminum	4840	5.12	mg/kg dry	205	4800	20.1	75-125	Low Bias			
Antimony	4.31	2.56	"	25.6	ND	16.9	75-125	Low Bias			
Arsenic	203	1.54	"	205	2.49	97.8	75-125				
Barium	221	2.56	"	205	20.8	97.7	75-125				
Beryllium	4.16	0.051	"	5.12	ND	81.3	75-125				
Cadmium	4.80	0.307	"	5.12	ND	93.8	75-125				
Calcium	116000	5.12	"	102	99700	NR	75-125	High Bias			
Chromium	25.0	0.512	"	20.5	7.71	84.3	75-125				
Cobalt	53.4	0.410	"	51.2	4.85	94.9	75-125				
Copper	48.9	2.05	"	25.6	14.3	135	75-125	High Bias			
Iron	9220	25.6	"	102	8690	519	75-125	High Bias			
Lead	52.9	0.512	"	51.2	2.71	98.0	75-125				
Magnesium	61600	5.12	"	102	54100	NR	75-125	High Bias			
Manganese	266	0.512	"	51.2	191	148	75-125	High Bias			
Nickel	62.4	1.02	"	51.2	10.8	101	75-125				
Potassium	764	5.12	"	102	481	276	75-125	High Bias			
Selenium	203	2.56	"	205	6.64	95.9	75-125				
Silver	3.69	0.512	"	5.12	ND	72.0	75-125	Low Bias			
Sodium	271	51.2	"	102	167	101	75-125				
Thallium	188	2.56	"	205	ND	91.6	75-125				
Vanadium	68.2	1.02	"	51.2	13.0	108	75-125				
Zinc	58.1	2.56	"	51.2	14.1	85.9	75-125				

Post Spike (BH10815-PS1)	Post Spike	*Source sample: 21H0719-03 (414_EP10_14.5)					Prepared: 08/16/2021 Analyzed: 08/17/2021				
Aluminum	49.7		ug/mL	2.00	46.9	139	75-125	High Bias			
Antimony	0.279		"	0.250	0.0002	112	75-125				
Arsenic	2.09		"	2.00	0.024	103	75-125				
Barium	2.26		"	2.00	0.203	103	75-125				
Beryllium	0.044		"	0.0500	-0.005	88.8	75-125				
Cadmium	0.049		"	0.0500	0.001	94.5	75-125				
Calcium	972		"	1.00	973	NR	75-125	Low Bias			
Chromium	0.265		"	0.200	0.075	94.6	75-125				
Cobalt	0.541		"	0.500	0.047	98.8	75-125				
Copper	0.442		"	0.250	0.140	121	75-125				
Iron	85.4		"	1.00	84.9	49.0	75-125	Low Bias			
Lead	0.534		"	0.500	0.026	102	75-125				
Magnesium	521		"	1.00	528	NR	75-125	Low Bias			
Manganese	2.35		"	0.500	1.86	97.2	75-125				
Nickel	0.658		"	0.500	0.105	111	75-125				
Potassium	6.03		"	1.00	4.70	133	75-125	High Bias			
Selenium	2.11		"	2.00	0.065	102	75-125				
Silver	0.045		"	0.0500	-0.016	89.7	75-125				
Sodium	2.77		"	1.00	1.63	114	75-125				
Thallium	1.93		"	2.00	-0.028	96.6	75-125				
Vanadium	0.647		"	0.500	0.127	104	75-125				
Zinc	0.579		"	0.500	0.138	88.2	75-125				



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10815 - EPA 3050B

Reference (BH10815-SRM1) Reference Prepared: 08/16/2021 Analyzed: 08/17/2021

Aluminum	9160	5.00	mg/kg wet	8130		113	49.9-150.1				
Antimony	39.1	2.50	"	134		29.2	19.3-250				
Arsenic	168	1.50	"	156		107	69.9-130.1				
Barium	273	2.50	"	239		114	74.9-124.7				
Beryllium	178	0.050	"	169		105	75.1-125.4				
Cadmium	140	0.300	"	137		102	75.2-124.8				
Calcium	4960	5.00	"	4760		104	72.7-127.5				
Chromium	156	0.500	"	154		101	70.1-129.9				
Cobalt	128	0.400	"	121		106	75-124.8				
Copper	61.5	2.00	"	54.9		112	74.9-125				
Iron	13500	25.0	"	14100		95.5	34.9-164.5				
Lead	140	0.500	"	130		107	71.8-128.5				
Magnesium	2510	5.00	"	2320		108	62.1-137.9				
Manganese	288	0.500	"	269		107	74-126.4				
Nickel	65.9	1.00	"	53.9		122	69.9-129.9				
Potassium	2250	5.00	"	2020		112	58.9-141.1				
Selenium	160	2.50	"	167		95.9	67.7-132.3				
Silver	35.9	0.500	"	33.6		107	68.5-131.3				
Sodium	150	50.0	"	133		113	35-165.4				
Thallium	113	2.50	"	112		101	67.9-131.3				
Vanadium	61.2	1.00	"	62.6		97.8	59.1-141.1				
Zinc	159	2.50	"	158		101	70.3-129.7				



Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10902 - EPA 7473 soil											
Blank (BH10902-BLK1)	Blank								Prepared & Analyzed: 08/17/2021		
Mercury	ND	0.0300	mg/kg wet								
Reference (BH10902-SRM1)	Reference								Prepared & Analyzed: 08/17/2021		
Mercury	25.142	0.0300	mg/kg wet	27.2		92.4	59.9-140.1				



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BH10776 - Analysis Preparation Soil												
Blank (BH10776-BLK1)	Blank								Prepared & Analyzed: 08/16/2021			
Cyanide, total	ND	0.500	mg/kg wet									
Duplicate (BH10776-DUP1)	Duplicate	*Source sample: 21H0675-01 (Duplicate)								Prepared & Analyzed: 08/16/2021		
Cyanide, total	ND	0.500	mg/kg wet		ND					15		
Matrix Spike (BH10776-MS1)	Matrix Spike	*Source sample: 21H0675-01 (Matrix Spike)								Prepared & Analyzed: 08/16/2021		
Cyanide, total	8.08	0.500	mg/kg wet	10.0	ND	80.8	79.6-107					
Reference (BH10776-SRM1)	Reference								Prepared & Analyzed: 08/16/2021			
Cyanide, total	111		ug/mL	91.9		121	42.22-159.96					
Batch BH10780 - EPA SW846-3060												
Blank (BH10780-BLK1)	Blank								Prepared & Analyzed: 08/16/2021			
Chromium, Hexavalent	ND	0.500	mg/kg wet									
Duplicate (BH10780-DUP1)	Duplicate	*Source sample: 21H0719-03 (414_EP10_14.5)								Prepared & Analyzed: 08/16/2021		
Chromium, Hexavalent	ND	0.512	mg/kg dry		ND					35		
Matrix Spike (BH10780-MS1)	Matrix Spike	*Source sample: 21H0719-03 (414_EP10_14.5)								Prepared & Analyzed: 08/16/2021		
Chromium, Hexavalent	15.5	0.512	mg/kg dry	20.5	ND	75.8	75-125					
Matrix Spike (BH10780-MS2)	Matrix Spike	*Source sample: 21H0719-03 (414_EP10_14.5)								Prepared & Analyzed: 08/16/2021		
Chromium, Hexavalent	15.6	0.512	mg/kg dry	20.5	ND	76.2	75-125					
Reference (BH10780-SRM1)	Reference								Prepared & Analyzed: 08/16/2021			
Chromium, Hexavalent	89.5		mg/L	109		82.1	30-169.7					



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10876 - % Solids Prep

Duplicate (BH10876-DUP1)	Duplicate	*Source sample: 21H0719-03 (414 EP10_14.5)						Prepared & Analyzed: 08/17/2021			
% Solids	97.4	0.100	%		97.7				0.292	20	



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
21H0719-01	414_EP15_14.5	40mL Vial with Stir Bar-Cool 4° C
21H0719-02	414_EP20_17.5	40mL Vial with Stir Bar-Cool 4° C
21H0719-03	414_EP10_14.5	40mL Vial with Stir Bar-Cool 4° C



Sample and Data Qualifiers Relating to This Work Order

PFAS-MSH	The recovery for this matrix spike compound was above control limits possibly due to matrix effects or non-homogeneity of the sample versus the native sample
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
ICV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
M-BLK	The target analyte was detected above the RL in the batch method blank. All samples showed >10x the concentration in the blank for this analyte. Data are reported.
M-CRL	The RL check for this element recovered outside of control limits.
M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity
M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
M-SRD1	The serial dilution for this element was outside control limits.
S-08	The recovery of this surrogate was outside of QC limits.
PF-CCV-H	The CCV recovery was slightly above acceptable limits for the qualified compound. However, sample results are not biased high because results are corrected for isotope recovery.
PF-CCV-L	The CCV recovery was slightly below acceptable limits for the qualified compound. However, sample results are not biased low because results are corrected for isotope recovery.
PF-LCS-H	The LCS recovery was slightly above acceptable limits for the qualified compound. However, sample results are not biased high because results are corrected for isotope recovery.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PTel-VAR	This fluorotelomer acid is known to be unstable in mixtures of standards due to dehydrofluorination and formation of methoxy adducts. The data user should take note. These issues create variability in CCVs, LCs and MSs.
QL-02	This LCS analyte is outside Laboratory Recovery limits due to the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.



LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



Field Chain-of-Custody Record

YORK Project No. **21H0719**

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 132-02 88th Ave Queens, NY 11418 800-306-YORK 800-306-9875 www.yorklab.com clientservices@yorklab.com

Page **1** of **1**

YOUR INFORMATION
 Company: **LANGAN**
 Address: **21 Penn Plaza, 360 W 31st Street, 9th floor, New York, NY 10001**
 Phone: **212-470-5400**
 Contact: **Kimberly Semor**
 E-mail: **KSemor@Langan.com**

Report To:
 Company: _____
 Address: _____
 Phone: _____
 Contact: _____
 E-mail: _____

Invoice To:
 Company: _____
 Address: _____
 Phone: _____
 Contact: _____
 E-mail: _____

YOUR PROJECT NUMBER
170488401

YOUR PROJECT NAME
414/AAA Gerald Ave

YOUR POC:

Turn-Around Time
 RUSH - Next Day
 RUSH - Two Day
 RUSH - Three Day
 Standard (5-7 Day)

Matrix Codes		Samples From		Report / EDD Type (circle selections)		YORK Reg. Comp.		
S - soil / solid	GW - groundwater	New York	Other	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)	
		New Jersey		QA Report	CT RCP DQADUE	Standard		
		Connecticut		NY ASP A Package		EQUIS (Standard)		
		Pennsylvania		NY ASP B Package		NYSDEC EQUIS		
		Other:				NJDEP Reduced Deliverables		
						NJDKQP		
						Other:		
Sample Matrix		Sample Matrix	Date/Time Sampled	Analysis Requested				Container Description
S	S	S	08/13/21 15:30	TLC/part 375 VOCs and SVOCs, PCBs, Pesticides, Metals including Cyanide, Hexavalent and trivalent Chromium, PFAS, PA-dioxane				800, 402, vial x 1 pps
S	S	S	08/13/21 15:30					
S	S	S	08/13/21 15:30					
				* Run for all samples				

Comments: Please also email ksemor@Langan.com and data.management@Langan.com

Preservation: (check all that apply)
 HCl _____ MeOH _____ HNO3 _____ H2SO4 _____ NaOH _____
 ZnAc _____ Ascorbic Acid _____ Other: _____

Field Filtered
 Date/Time: **8/13/21 16:20**

Lab to Filter
 Date/Time: **8/13/21 20:47**

Special Instruction
 2 Samples Relinquished by / Company
 3 Samples Relinquished by / Company
 4 Samples Received by / Company
 5 Samples Received by / Company

Date/Time
 Date/Time: **8/13/21 16:20**
 Date/Time: **8/13/21 20:47**

Samples Received in LAB by
7 Gale 8/13/21 2047 1.8

Temperature
 Degree C: _____



Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

Attention: Kimberly Semon

Report Date: 08/17/2021

Client Project ID: 170488401

York Project (SDG) No.: 21H0655



CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037

New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
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132-02 89th AVENUE
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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 08/17/2021
Client Project ID: 170488401
York Project (SDG) No.: 21H0655

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Kimberly Semon

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 12, 2021 and listed below. The project was identified as your project: **170488401**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

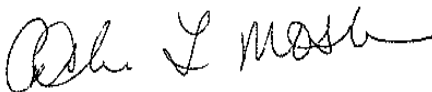
Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21H0655-01	414_EP05_13	Soil	08/12/2021	08/12/2021

General Notes for York Project (SDG) No.: 21H0655

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By



Cassie L. Mosher
Laboratory Manager

Date: 08/17/2021





Sample Information

Client Sample ID: 414_EP05_13

York Sample ID: 21H0655-01

<u>York Project (SDG) No.</u> 21H0655	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 12, 2021 3:00 pm	<u>Date Received</u> 08/12/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/13/2021 06:17	08/13/2021 20:27	KHA
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/13/2021 06:17	08/13/2021 20:27	KHA
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.041	0.082	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
78-93-3	2-Butanone	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA



Sample Information

Client Sample ID: 414_EP05_13

York Sample ID: 21H0655-01

<u>York Project (SDG) No.</u> 21H0655	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 12, 2021 3:00 pm	<u>Date Received</u> 08/12/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
67-64-1	Acetone	0.0052	J	mg/kg dry	0.0041	0.0082	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
107-02-8	Acrolein	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
71-43-2	Benzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
75-25-2	Bromoform	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
74-83-9	Bromomethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
75-00-3	Chloroethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
67-66-3	Chloroform	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
74-87-3	Chloromethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
110-82-7	Cyclohexane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
74-95-3	Dibromomethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA



Sample Information

Client Sample ID: 414_EP05_13

York Sample ID: 21H0655-01

<u>York Project (SDG) No.</u> 21H0655	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 12, 2021 3:00 pm	<u>Date Received</u> 08/12/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
79-20-9	Methyl acetate	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
75-09-2	Methylene chloride	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
95-47-6	o-Xylene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
100-42-5	Styrene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
108-88-3	Toluene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA



Sample Information

Client Sample ID: 414_EP05_13

York Sample ID: 21H0655-01

<u>York Project (SDG) No.</u> 21H0655	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 12, 2021 3:00 pm	<u>Date Received</u> 08/12/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/13/2021 06:17	08/13/2021 20:27	KHA
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0061	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/13/2021 06:17	08/13/2021 20:27	KHA
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	113 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	102 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	101 %			76-130						

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH



Sample Information

Client Sample ID: 414_EP05_13

York Sample ID: 21H0655-01

<u>York Project (SDG) No.</u> 21H0655	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 12, 2021 3:00 pm	<u>Date Received</u> 08/12/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
62-53-3	Aniline	ND		mg/kg dry	0.178	0.356	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
92-87-5	Benzidine	ND		mg/kg dry	0.178	0.356	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH



Sample Information

Client Sample ID: 414_EP05_13

York Sample ID: 21H0655-01

<u>York Project (SDG) No.</u> 21H0655	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 12, 2021 3:00 pm	<u>Date Received</u> 08/12/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH



Sample Information

Client Sample ID: 414_EP05_13

York Sample ID: 21H0655-01

<u>York Project (SDG) No.</u> 21H0655	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 12, 2021 3:00 pm	<u>Date Received</u> 08/12/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
108-95-2	Phenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH
110-86-1	Pyridine	ND		mg/kg dry	0.178	0.356	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:48	08/16/2021 10:11	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	71.9 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	61.6 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	73.4 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	67.9 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	80.7 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	77.1 %	24-116



Sample Information

Client Sample ID: 414_EP05_13

York Sample ID: 21H0655-01

<u>York Project (SDG) No.</u> 21H0655	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 12, 2021 3:00 pm	<u>Date Received</u> 08/12/2021
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Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.9	1	EPA 8270D SIM Certifications: NELAC-NY10854	08/17/2021 08:16	08/17/2021 11:30	KH
Surrogate Recoveries		Result			Acceptance Range					
17647-74-4	Surrogate: 1,4-Dioxane-d8	50.0 %			39-127.5					

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.253	1	EPA 537m Certifications:	08/13/2021 12:55	08/17/2021 15:34	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.253	1	EPA 537m Certifications:	08/13/2021 12:55	08/17/2021 15:34	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.253	1	EPA 537m Certifications:	08/13/2021 12:55	08/17/2021 15:34	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.253	1	EPA 537m Certifications:	08/13/2021 12:55	08/17/2021 15:34	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.253	1	EPA 537m Certifications:	08/13/2021 12:55	08/17/2021 15:34	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.253	1	EPA 537m Certifications:	08/13/2021 12:55	08/17/2021 15:34	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.253	1	EPA 537m Certifications:	08/13/2021 12:55	08/17/2021 15:34	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.253	1	EPA 537m Certifications:	08/13/2021 12:55	08/17/2021 15:34	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.253	1	EPA 537m Certifications:	08/13/2021 12:55	08/17/2021 15:34	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.253	1	EPA 537m Certifications:	08/13/2021 12:55	08/17/2021 15:34	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.253	1	EPA 537m Certifications:	08/13/2021 12:55	08/17/2021 15:34	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.253	1	EPA 537m Certifications:	08/13/2021 12:55	08/17/2021 15:34	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.253	1	EPA 537m Certifications:	08/13/2021 12:55	08/17/2021 15:34	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.253	1	EPA 537m Certifications:	08/13/2021 12:55	08/17/2021 15:34	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.253	1	EPA 537m Certifications:	08/13/2021 12:55	08/17/2021 15:34	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.253	1	EPA 537m Certifications:	08/13/2021 12:55	08/17/2021 15:34	WL



Sample Information

Client Sample ID: 414_EP05_13

York Sample ID: 21H0655-01

<u>York Project (SDG) No.</u> 21H0655	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 12, 2021 3:00 pm	<u>Date Received</u> 08/12/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.253	1	EPA 537m Certifications:	08/13/2021 12:55	08/17/2021 15:34	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.253	1	EPA 537m Certifications:	08/13/2021 12:55	08/17/2021 15:34	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.253	1	EPA 537m Certifications:	08/13/2021 12:55	08/17/2021 15:34	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.253	1	EPA 537m Certifications:	08/13/2021 12:55	08/17/2021 15:34	WL
375-22-4	* Perfluoro-n-butyric acid (PFBA)	ND		ug/kg dry	0.253	1	EPA 537m Certifications:	08/13/2021 12:55	08/17/2021 15:34	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	85.5 %	25-150
Surrogate: M5PFHxA	90.7 %	25-150
Surrogate: M4PFHpA	92.1 %	25-150
Surrogate: M3PFHxS	90.7 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic aci	89.2 %	25-150
Surrogate: M6PFDA	82.2 %	25-150
Surrogate: M7PFUdA	68.2 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	63.5 %	25-150
Surrogate: M2PFTeDA	71.9 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic aci	89.1 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfo	78.2 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic ac	51.6 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfo	71.7 %	10-150
Surrogate: d3-N-MeFOSAA	84.7 %	25-150
Surrogate: d5-N-EtFOSAA	87.2 %	25-150
Surrogate: M2-6:2 FTS	132 %	25-200
Surrogate: M2-8:2 FTS	148 %	25-200
Surrogate: M9PFNA	101 %	25-150

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 07:19	08/15/2021 19:31	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 07:19	08/15/2021 19:31	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 07:19	08/15/2021 19:31	CM



Sample Information

Client Sample ID: 414_EP05_13

York Sample ID: 21H0655-01

<u>York Project (SDG) No.</u> 21H0655	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 12, 2021 3:00 pm	<u>Date Received</u> 08/12/2021
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 07:19	08/15/2021 19:31	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 07:19	08/15/2021 19:31	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/13/2021 07:19	08/15/2021 19:31	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 07:19	08/15/2021 19:31	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 07:19	08/15/2021 19:31	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 07:19	08/15/2021 19:31	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 07:19	08/15/2021 19:31	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/13/2021 07:19	08/15/2021 19:31	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 07:19	08/15/2021 19:31	CM
72-20-8	Endrin	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 07:19	08/15/2021 19:31	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 07:19	08/15/2021 19:31	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 07:19	08/15/2021 19:31	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 07:19	08/15/2021 19:31	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/13/2021 07:19	08/15/2021 19:31	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 07:19	08/15/2021 19:31	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 07:19	08/15/2021 19:31	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 07:19	08/15/2021 19:31	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 07:19	08/15/2021 19:31	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0346	5	EPA 8081B Certifications:	08/13/2021 07:19	08/15/2021 19:31	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	81.5 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	96.9 %	30-150							



Sample Information

Client Sample ID: 414_EP05_13

York Sample ID: 21H0655-01

<u>York Project (SDG) No.</u> 21H0655	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 12, 2021 3:00 pm	<u>Date Received</u> 08/12/2021
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 07:19	08/13/2021 22:40	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 07:19	08/13/2021 22:40	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 07:19	08/13/2021 22:40	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 07:19	08/13/2021 22:40	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 07:19	08/13/2021 22:40	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 07:19	08/13/2021 22:40	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/13/2021 07:19	08/13/2021 22:40	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications:	08/13/2021 07:19	08/13/2021 22:40	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	105 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	70.5 %	30-120							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	9020		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM
7440-36-0	Antimony	ND		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM
7440-39-3	Barium	55.7		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.322	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM
7440-70-2	Calcium	55900	B	mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM
7440-47-3	Chromium	16.4		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM
7440-48-4	Cobalt	8.58		mg/kg dry	0.430	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM



Sample Information

Client Sample ID: 414_EP05_13

York Sample ID: 21H0655-01

<u>York Project (SDG) No.</u> 21H0655	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 12, 2021 3:00 pm	<u>Date Received</u> 08/12/2021
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	21.2		mg/kg dry	2.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM
7439-89-6	Iron	13000		mg/kg dry	26.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM
7439-92-1	Lead	7.93		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM
7439-95-4	Magnesium	34100		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM
7439-96-5	Manganese	263		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM
7440-02-0	Nickel	13.9		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM
7440-09-7	Potassium	2180		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM
7782-49-2	Selenium	7.36		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM
7440-22-4	Silver	ND		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM
7440-23-5	Sodium	167		mg/kg dry	53.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM
7440-28-0	Thallium	ND		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM
7440-62-2	Vanadium	22.0		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM
7440-66-6	Zinc	39.3		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/13/2021 11:43	08/16/2021 11:23	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0322	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	08/17/2021 12:08	08/17/2021 12:58	BML

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.537	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	08/13/2021 07:50	08/13/2021 14:22	OT

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: 414_EP05_13

York Sample ID: 21H0655-01

<u>York Project (SDG) No.</u> 21H0655	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 12, 2021 3:00 pm	<u>Date Received</u> 08/12/2021
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/kg	0.500	1	Calculation	08/16/2021 14:27	08/16/2021 14:40	ZTS

Certifications:

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.537	1	EPA 9014/9010C	08/13/2021 07:58	08/13/2021 15:11	JAG

Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	93.1		%	0.100	1	SM 2540G	08/13/2021 09:17	08/13/2021 14:41	OT

Certifications: CTDOH



Analytical Batch Summary

Batch ID: BH10717 **Preparation Method:** EPA 3550C **Prepared By:** RTH

YORK Sample ID	Client Sample ID	Preparation Date
21H0655-01	414_EP05_13	08/13/21
21H0655-01	414_EP05_13	08/13/21
BH10717-BLK1	Blank	08/13/21
BH10717-BLK2	Blank	08/13/21
BH10717-BS1	LCS	08/13/21
BH10717-BS2	LCS	08/13/21

Batch ID: BH10720 **Preparation Method:** EPA SW846-3060 **Prepared By:** OT

YORK Sample ID	Client Sample ID	Preparation Date
21H0655-01	414_EP05_13	08/13/21
BH10720-BLK1	Blank	08/13/21
BH10720-DUP1	Duplicate	08/13/21
BH10720-MS1	Matrix Spike	08/13/21
BH10720-MS2	Matrix Spike	08/13/21
BH10720-SRM1	Reference	08/13/21

Batch ID: BH10721 **Preparation Method:** Analysis Preparation Soil **Prepared By:** JAG

YORK Sample ID	Client Sample ID	Preparation Date
21H0655-01	414_EP05_13	08/13/21
BH10721-BLK1	Blank	08/13/21
BH10721-DUP1	Duplicate	08/13/21
BH10721-MS1	Matrix Spike	08/13/21
BH10721-SRM1	Reference	08/13/21

Batch ID: BH10727 **Preparation Method:** % Solids Prep **Prepared By:** OT

YORK Sample ID	Client Sample ID	Preparation Date
21H0655-01	414_EP05_13	08/13/21
BH10727-DUP1	Duplicate	08/13/21

Batch ID: BH10737 **Preparation Method:** EPA 3050B **Prepared By:** BML

YORK Sample ID	Client Sample ID	Preparation Date
21H0655-01	414_EP05_13	08/13/21
BH10737-BLK1	Blank	08/13/21
BH10737-DUP1	Duplicate	08/13/21
BH10737-MS1	Matrix Spike	08/13/21
BH10737-PS1	Post Spike	08/13/21
BH10737-SRM1	Reference	08/13/21



Batch ID: BH10740 **Preparation Method:** EPA 3546 SVOA **Prepared By:** EMS

YORK Sample ID	Client Sample ID	Preparation Date
21H0655-01	414_EP05_13	08/13/21
BH10740-BLK1	Blank	08/13/21
BH10740-BS1	LCS	08/13/21
BH10740-MS1	Matrix Spike	08/13/21
BH10740-MSD1	Matrix Spike Dup	08/13/21

Batch ID: BH10744 **Preparation Method:** SPE PFAS Extraction-Soil-EPA 537m **Prepared By:** WL

YORK Sample ID	Client Sample ID	Preparation Date
21H0655-01	414_EP05_13	08/13/21
BH10744-BLK1	Blank	08/13/21
BH10744-BS1	LCS	08/13/21

Batch ID: BH10830 **Preparation Method:** EPA 5035A **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
21H0655-01	414_EP05_13	08/13/21
BH10830-BLK1	Blank	08/13/21
BH10830-BLK2	Blank	08/13/21
BH10830-BS1	LCS	08/13/21
BH10830-BSD1	LCS Dup	08/13/21

Batch ID: BH10831 **Preparation Method:** Analysis Preparation **Prepared By:** ZTS

YORK Sample ID	Client Sample ID	Preparation Date
21H0655-01	414_EP05_13	08/16/21

Batch ID: BH10865 **Preparation Method:** EPA 3550C **Prepared By:** RTH

YORK Sample ID	Client Sample ID	Preparation Date
21H0655-01	414_EP05_13	08/17/21
BH10865-BLK1	Blank	08/17/21
BH10865-BS1	LCS	08/17/21
BH10865-MS1	Matrix Spike	08/17/21
BH10865-MSD1	Matrix Spike Dup	08/17/21

Batch ID: BH10902 **Preparation Method:** EPA 7473 soil **Prepared By:** BML

YORK Sample ID	Client Sample ID	Preparation Date
21H0655-01	414_EP05_13	08/17/21
BH10902-BLK1	Blank	08/17/21
BH10902-SRM1	Reference	08/17/21



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10830 - EPA 5035A

Blank (BH10830-BLK1)	Blank	Prepared & Analyzed: 08/13/2021									
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10830 - EPA 5035A

Blank (BH10830-BLK1)	Blank	Prepared & Analyzed: 08/13/2021									
n-Butylbenzene	ND	0.0050	mg/kg wet								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
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Surrogate: SURRE: 1,2-Dichloroethane-d4	53.9		ug/L	50.0		108	77-125				
Surrogate: SURRE: Toluene-d8	51.6		"	50.0		103	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	51.4		"	50.0		103	76-130				

Blank (BH10830-BLK2)	holding blank-21H0655	Prepared & Analyzed: 08/13/2021									
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10830 - EPA 5035A

Blank (BH10830-BLK2) holding blank-21H0655 Prepared & Analyzed: 08/13/2021

Bromoform	ND	0.0050	mg/kg wet								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								

Surrogate: SURRE: 1,2-Dichloroethane-d4	53.4		ug/L	50.0		107	77-125				
Surrogate: SURRE: Toluene-d8	51.7		"	50.0		103	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	51.4		"	50.0		103	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10830 - EPA 5035A

LCS (BH10830-BS1)	LCS	Prepared & Analyzed: 08/13/2021									
1,1,1,2-Tetrachloroethane	57.3		ug/L	50.0		115	75-129				
1,1,1-Trichloroethane	56.7		"	50.0		113	71-137				
1,1,2,2-Tetrachloroethane	53.3		"	50.0		107	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53.6		"	50.0		107	58-146				
1,1,2-Trichloroethane	50.4		"	50.0		101	83-123				
1,1-Dichloroethane	47.6		"	50.0		95.3	75-130				
1,1-Dichloroethylene	54.5		"	50.0		109	64-137				
1,2,3-Trichlorobenzene	53.7		"	50.0		107	81-140				
1,2,3-Trichloropropane	55.8		"	50.0		112	81-126				
1,2,4-Trichlorobenzene	56.1		"	50.0		112	80-141				
1,2,4-Trimethylbenzene	54.5		"	50.0		109	84-125				
1,2-Dibromo-3-chloropropane	60.6		"	50.0		121	74-142				
1,2-Dibromoethane	53.6		"	50.0		107	86-123				
1,2-Dichlorobenzene	52.5		"	50.0		105	85-122				
1,2-Dichloroethane	53.8		"	50.0		108	71-133				
1,2-Dichloropropane	49.3		"	50.0		98.6	81-122				
1,3,5-Trimethylbenzene	55.5		"	50.0		111	82-126				
1,3-Dichlorobenzene	52.2		"	50.0		104	84-124				
1,4-Dichlorobenzene	52.6		"	50.0		105	84-124				
1,4-Dioxane	1080		"	1050		103	10-228				
2-Butanone	50.3		"	50.0		101	58-147				
2-Hexanone	51.1		"	50.0		102	70-139				
4-Methyl-2-pentanone	49.9		"	50.0		99.9	72-132				
Acetone	46.0		"	50.0		91.9	36-155				
Acrolein	28.1		"	50.0		56.1	10-238				
Acrylonitrile	45.9		"	50.0		91.8	66-141				
Benzene	48.4		"	50.0		96.9	77-127				
Bromochloromethane	47.2		"	50.0		94.5	74-129				
Bromodichloromethane	58.2		"	50.0		116	81-124				
Bromoform	53.9		"	50.0		108	80-136				
Bromomethane	83.6		"	50.0		167	32-177				
Carbon disulfide	60.2		"	50.0		120	10-136				
Carbon tetrachloride	54.5		"	50.0		109	66-143				
Chlorobenzene	51.8		"	50.0		104	86-120				
Chloroethane	68.0		"	50.0		136	51-142				
Chloroform	52.8		"	50.0		106	76-131				
Chloromethane	44.9		"	50.0		89.8	49-132				
cis-1,2-Dichloroethylene	51.9		"	50.0		104	74-132				
cis-1,3-Dichloropropylene	54.3		"	50.0		109	81-129				
Cyclohexane	43.4		"	50.0		86.8	70-130				
Dibromochloromethane	55.1		"	50.0		110	10-200				
Dibromomethane	50.6		"	50.0		101	83-124				
Dichlorodifluoromethane	41.3		"	50.0		82.5	28-158				
Ethyl Benzene	51.6		"	50.0		103	84-125				
Hexachlorobutadiene	56.1		"	50.0		112	83-133				
Isopropylbenzene	53.6		"	50.0		107	81-127				
Methyl acetate	41.4		"	50.0		82.8	41-143				
Methyl tert-butyl ether (MTBE)	52.7		"	50.0		105	74-131				
Methylcyclohexane	48.2		"	50.0		96.4	70-130				
Methylene chloride	48.8		"	50.0		97.5	57-141				
n-Butylbenzene	55.6		"	50.0		111	80-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10830 - EPA 5035A											
LCS (BH10830-BS1)	LCS										Prepared & Analyzed: 08/13/2021
n-Propylbenzene	52.8		ug/L	50.0		106	74-136				
o-Xylene	51.2		"	50.0		102	83-123				
p- & m- Xylenes	105		"	100		105	82-128				
p-Isopropyltoluene	55.9		"	50.0		112	85-125				
sec-Butylbenzene	56.9		"	50.0		114	83-125				
Styrene	51.6		"	50.0		103	86-126				
tert-Butyl alcohol (TBA)	321		"	250		129	70-130				
tert-Butylbenzene	54.8		"	50.0		110	80-127				
Tetrachloroethylene	49.3		"	50.0		98.6	80-129				
Toluene	51.0		"	50.0		102	85-121				
trans-1,2-Dichloroethylene	52.2		"	50.0		104	72-132				
trans-1,3-Dichloropropylene	51.2		"	50.0		102	78-132				
Trichloroethylene	53.2		"	50.0		106	84-123				
Trichlorofluoromethane	53.2		"	50.0		106	62-140				
Vinyl Chloride	49.8		"	50.0		99.7	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	53.5		"	50.0		107	77-125				
Surrogate: SURR: Toluene-d8	51.5		"	50.0		103	85-120				
Surrogate: SURR: p-Bromofluorobenzene	50.6		"	50.0		101	76-130				
LCS Dup (BH10830-BSD1)	LCS Dup										Prepared & Analyzed: 08/13/2021
1,1,1,2-Tetrachloroethane	59.4		ug/L	50.0		119	75-129		3.67	30	
1,1,1-Trichloroethane	57.8		"	50.0		116	71-137		1.87	30	
1,1,2,2-Tetrachloroethane	56.3		"	50.0		113	79-129		5.53	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	54.6		"	50.0		109	58-146		1.74	30	
1,1,2-Trichloroethane	51.9		"	50.0		104	83-123		2.93	30	
1,1-Dichloroethane	48.6		"	50.0		97.2	75-130		2.04	30	
1,1-Dichloroethylene	55.7		"	50.0		111	64-137		2.18	30	
1,2,3-Trichlorobenzene	55.4		"	50.0		111	81-140		3.08	30	
1,2,3-Trichloropropane	57.8		"	50.0		116	81-126		3.56	30	
1,2,4-Trichlorobenzene	57.1		"	50.0		114	80-141		1.77	30	
1,2,4-Trimethylbenzene	56.1		"	50.0		112	84-125		2.98	30	
1,2-Dibromo-3-chloropropane	64.9		"	50.0		130	74-142		6.98	30	
1,2-Dibromoethane	54.7		"	50.0		109	86-123		1.98	30	
1,2-Dichlorobenzene	54.8		"	50.0		110	85-122		4.17	30	
1,2-Dichloroethane	53.8		"	50.0		108	71-133		0.0186	30	
1,2-Dichloropropane	50.3		"	50.0		101	81-122		1.99	30	
1,3,5-Trimethylbenzene	57.0		"	50.0		114	82-126		2.67	30	
1,3-Dichlorobenzene	54.4		"	50.0		109	84-124		4.13	30	
1,4-Dichlorobenzene	54.0		"	50.0		108	84-124		2.76	30	
1,4-Dioxane	1120		"	1050		106	10-228		3.53	30	
2-Butanone	53.6		"	50.0		107	58-147		6.37	30	
2-Hexanone	53.8		"	50.0		108	70-139		5.11	30	
4-Methyl-2-pentanone	52.3		"	50.0		105	72-132		4.58	30	
Acetone	49.3		"	50.0		98.6	36-155		6.99	30	
Acrolein	29.7		"	50.0		59.5	10-238		5.74	30	
Acrylonitrile	49.3		"	50.0		98.7	66-141		7.16	30	
Benzene	49.3		"	50.0		98.6	77-127		1.76	30	
Bromochloromethane	48.5		"	50.0		97.0	74-129		2.65	30	
Bromodichloromethane	58.6		"	50.0		117	81-124		0.719	30	
Bromoform	54.3		"	50.0		109	80-136		0.776	30	
Bromomethane	82.3		"	50.0		165	32-177		1.54	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10830 - EPA 5035A											
LCS Dup (BH10830-bsd1)	LCS Dup	Prepared & Analyzed: 08/13/2021									
Carbon disulfide	61.0		ug/L	50.0		122	10-136		1.37	30	
Carbon tetrachloride	55.6		"	50.0		111	66-143		2.02	30	
Chlorobenzene	53.7		"	50.0		107	86-120		3.58	30	
Chloroethane	65.5		"	50.0		131	51-142		3.75	30	
Chloroform	54.1		"	50.0		108	76-131		2.41	30	
Chloromethane	44.6		"	50.0		89.2	49-132		0.693	30	
cis-1,2-Dichloroethylene	52.2		"	50.0		104	74-132		0.711	30	
cis-1,3-Dichloropropylene	55.9		"	50.0		112	81-129		2.87	30	
Cyclohexane	44.6		"	50.0		89.1	70-130		2.64	30	
Dibromochloromethane	54.7		"	50.0		109	10-200		0.874	30	
Dibromomethane	53.4		"	50.0		107	83-124		5.35	30	
Dichlorodifluoromethane	42.5		"	50.0		85.1	28-158		3.05	30	
Ethyl Benzene	52.9		"	50.0		106	84-125		2.39	30	
Hexachlorobutadiene	57.4		"	50.0		115	83-133		2.24	30	
Isopropylbenzene	56.2		"	50.0		112	81-127		4.68	30	
Methyl acetate	41.9		"	50.0		83.9	41-143		1.25	30	
Methyl tert-butyl ether (MTBE)	53.7		"	50.0		107	74-131		1.96	30	
Methylcyclohexane	49.8		"	50.0		99.5	70-130		3.25	30	
Methylene chloride	48.8		"	50.0		97.5	57-141		0.00	30	
n-Butylbenzene	58.6		"	50.0		117	80-130		5.11	30	
n-Propylbenzene	55.4		"	50.0		111	74-136		4.79	30	
o-Xylene	52.0		"	50.0		104	83-123		1.49	30	
p- & m- Xylenes	107		"	100		107	82-128		2.15	30	
p-Isopropyltoluene	58.3		"	50.0		117	85-125		4.15	30	
sec-Butylbenzene	58.4		"	50.0		117	83-125		2.62	30	
Styrene	52.8		"	50.0		106	86-126		2.32	30	
tert-Butyl alcohol (TBA)	361		"	250		144	70-130	High Bias	11.6	30	
tert-Butylbenzene	56.2		"	50.0		112	80-127		2.60	30	
Tetrachloroethylene	50.9		"	50.0		102	80-129		3.29	30	
Toluene	52.0		"	50.0		104	85-121		2.02	30	
trans-1,2-Dichloroethylene	53.8		"	50.0		108	72-132		2.96	30	
trans-1,3-Dichloropropylene	52.2		"	50.0		104	78-132		2.07	30	
Trichloroethylene	55.0		"	50.0		110	84-123		3.51	30	
Trichlorofluoromethane	51.3		"	50.0		103	62-140		3.56	30	
Vinyl Chloride	50.1		"	50.0		100	52-130		0.520	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	52.9		"	50.0		106	77-125				
Surrogate: SURR: Toluene-d8	52.5		"	50.0		105	85-120				
Surrogate: SURR: p-Bromofluorobenzene	51.4		"	50.0		103	76-130				



Semivolatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10740 - EPA 3546 SVOA

Blank (BH10740-BLK1) Blank Prepared: 08/13/2021 Analyzed: 08/16/2021

1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								
Caprolactam	ND	0.0830	"								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								



Semivolatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10740 - EPA 3546 SVOA

Blank (BH10740-BLK1)	Blank	Prepared: 08/13/2021 Analyzed: 08/16/2021									
Dibenzofuran	ND	0.0416	mg/kg wet								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Pyridine	ND	0.166	"								
<i>Surrogate: SURR: 2-Fluorophenol</i>	<i>1.23</i>		<i>"</i>	<i>1.66</i>		<i>73.8</i>	<i>20-108</i>				
<i>Surrogate: SURR: Phenol-d5</i>	<i>1.03</i>		<i>"</i>	<i>1.66</i>		<i>61.8</i>	<i>23-114</i>				
<i>Surrogate: SURR: Nitrobenzene-d5</i>	<i>0.607</i>		<i>"</i>	<i>0.831</i>		<i>73.0</i>	<i>22-108</i>				
<i>Surrogate: SURR: 2-Fluorobiphenyl</i>	<i>0.625</i>		<i>"</i>	<i>0.831</i>		<i>75.2</i>	<i>21-113</i>				
<i>Surrogate: SURR: 2,4,6-Tribromophenol</i>	<i>1.27</i>		<i>"</i>	<i>1.66</i>		<i>76.2</i>	<i>19-110</i>				
<i>Surrogate: SURR: Terphenyl-d14</i>	<i>0.745</i>		<i>"</i>	<i>0.831</i>		<i>89.7</i>	<i>24-116</i>				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10740 - EPA 3546 SVOA											
LCS (BH10740-BS1)	LCS										Prepared: 08/13/2021 Analyzed: 08/16/2021
1,1-Biphenyl	0.626	0.0416	mg/kg wet	0.831		75.4	18-111				
1,2,4,5-Tetrachlorobenzene	0.676	0.0830	"	0.831		81.4	21-131				
1,2-Diphenylhydrazine (as Azobenzene)	0.475	0.0416	"	0.831		57.2	17-137				
2,3,4,6-Tetrachlorophenol	0.453	0.0830	"	0.831		54.5	30-130				
2,4,5-Trichlorophenol	0.623	0.0416	"	0.831		75.0	27-118				
2,4,6-Trichlorophenol	0.582	0.0416	"	0.831		70.0	31-120				
2,4-Dichlorophenol	0.665	0.0416	"	0.831		80.0	20-127				
2,4-Dimethylphenol	0.627	0.0416	"	0.831		75.5	14-132				
2,4-Dinitrophenol	ND	0.0830	"	0.831			10-171	Low Bias			
2,4-Dinitrotoluene	0.660	0.0416	"	0.831		79.4	34-131				
2,6-Dinitrotoluene	0.710	0.0416	"	0.831		85.5	31-128				
2-Chloronaphthalene	0.584	0.0416	"	0.831		70.3	31-117				
2-Chlorophenol	0.563	0.0416	"	0.831		67.8	33-113				
2-Methylnaphthalene	0.619	0.0416	"	0.831		74.6	12-138				
2-Methylphenol	0.532	0.0416	"	0.831		64.0	10-136				
2-Nitroaniline	0.659	0.0830	"	0.831		79.3	27-132				
2-Nitrophenol	0.735	0.0416	"	0.831		88.5	17-129				
3- & 4-Methylphenols	0.460	0.0416	"	0.831		55.4	29-103				
3,3-Dichlorobenzidine	0.507	0.0416	"	0.831		61.1	22-149				
3-Nitroaniline	0.609	0.0830	"	0.831		73.3	20-133				
4,6-Dinitro-2-methylphenol	0.237	0.0830	"	0.831		28.5	10-143				
4-Bromophenyl phenyl ether	0.600	0.0416	"	0.831		72.3	29-120				
4-Chloro-3-methylphenol	0.531	0.0416	"	0.831		63.9	24-129				
4-Chloroaniline	0.552	0.0416	"	0.831		66.5	10-132				
4-Chlorophenyl phenyl ether	0.596	0.0416	"	0.831		71.7	27-124				
4-Nitroaniline	0.622	0.0830	"	0.831		74.9	16-128				
4-Nitrophenol	0.471	0.0830	"	0.831		56.8	10-141				
Acenaphthene	0.596	0.0416	"	0.831		71.8	30-121				
Acenaphthylene	0.588	0.0416	"	0.831		70.8	30-115				
Acetophenone	0.509	0.0416	"	0.831		61.3	20-112				
Aniline	0.474	0.166	"	0.831		57.1	10-119				
Anthracene	0.600	0.0416	"	0.831		72.2	34-118				
Atrazine	0.606	0.0416	"	0.831		73.0	26-112				
Benzaldehyde	0.572	0.0416	"	0.831		68.8	21-100				
Benzo(a)anthracene	0.600	0.0416	"	0.831		72.3	32-122				
Benzo(a)pyrene	0.631	0.0416	"	0.831		75.9	29-133				
Benzo(b)fluoranthene	0.591	0.0416	"	0.831		71.1	25-133				
Benzo(g,h,i)perylene	0.649	0.0416	"	0.831		78.1	10-143				
Benzo(k)fluoranthene	0.582	0.0416	"	0.831		70.1	25-128				
Benzoic acid	0.147	0.0416	"	0.831		17.6	10-140				
Benzyl alcohol	0.511	0.0416	"	0.831		61.5	30-115				
Benzyl butyl phthalate	0.537	0.0416	"	0.831		64.7	26-126				
Bis(2-chloroethoxy)methane	0.534	0.0416	"	0.831		64.3	19-132				
Bis(2-chloroethyl)ether	0.476	0.0416	"	0.831		57.3	19-125				
Bis(2-chloroisopropyl)ether	0.407	0.0416	"	0.831		49.0	20-135				
Bis(2-ethylhexyl)phthalate	0.519	0.0416	"	0.831		62.4	10-155				
Caprolactam	0.603	0.0830	"	0.831		72.6	10-127				
Carbazole	0.586	0.0416	"	0.831		70.6	35-123				
Chrysene	0.604	0.0416	"	0.831		72.7	32-123				
Dibenzo(a,h)anthracene	0.638	0.0416	"	0.831		76.8	10-136				
Dibenzofuran	0.602	0.0416	"	0.831		72.5	29-121				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10740 - EPA 3546 SVOA

LCS (BH10740-BS1)	LCS	Prepared: 08/13/2021 Analyzed: 08/16/2021									
Diethyl phthalate	0.528	0.0416	mg/kg wet	0.831		63.6	34-116				
Dimethyl phthalate	0.545	0.0416	"	0.831		65.6	35-124				
Di-n-butyl phthalate	0.521	0.0416	"	0.831		62.8	31-116				
Di-n-octyl phthalate	0.525	0.0416	"	0.831		63.2	26-136				
Diphenylamine	0.682	0.0830	"	0.831		82.2	40-140				
Fluoranthene	0.545	0.0416	"	0.831		65.6	33-122				
Fluorene	0.588	0.0416	"	0.831		70.8	29-123				
Hexachlorobenzene	0.474	0.0416	"	0.831		57.1	21-124				
Hexachlorobutadiene	0.589	0.0416	"	0.831		71.0	10-149				
Hexachlorocyclopentadiene	0.297	0.0416	"	0.831		35.8	10-129				
Hexachloroethane	0.537	0.0416	"	0.831		64.6	28-108				
Indeno(1,2,3-cd)pyrene	0.620	0.0416	"	0.831		74.6	10-135				
Isophorone	0.501	0.0416	"	0.831		60.3	20-132				
Naphthalene	0.605	0.0416	"	0.831		72.9	23-124				
Nitrobenzene	0.562	0.0416	"	0.831		67.7	13-132				
N-Nitrosodimethylamine	0.435	0.0416	"	0.831		52.3	11-129				
N-nitroso-di-n-propylamine	0.408	0.0416	"	0.831		49.1	24-119				
N-Nitrosodiphenylamine	0.627	0.0416	"	0.831		75.4	22-152				
Pentachlorophenol	0.113	0.0416	"	0.831		13.6	10-139				
Phenanthrene	0.560	0.0416	"	0.831		67.4	33-123				
Phenol	0.581	0.0416	"	0.831		69.9	23-115				
Pyrene	0.612	0.0416	"	0.831		73.7	24-130				
Pyridine	0.350	0.166	"	0.831		42.2	10-91				
Surrogate: SURR: 2-Fluorophenol	1.18		"	1.66		70.9	20-108				
Surrogate: SURR: Phenol-d5	1.02		"	1.66		61.3	23-114				
Surrogate: SURR: Nitrobenzene-d5	0.567		"	0.831		68.3	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	0.584		"	0.831		70.3	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1.31		"	1.66		79.1	19-110				
Surrogate: SURR: Terphenyl-d14	0.644		"	0.831		77.5	24-116				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10740 - EPA 3546 SVOA

Matrix Spike (BH10740-MS1) Matrix Spike *Source sample: 21H0480-01 (Matrix Spike) Prepared: 08/13/2021 Analyzed: 08/16/2021

1,1-Biphenyl	0.627	0.0909	mg/kg dry	0.908	ND	69.1	10-130				
1,2,4,5-Tetrachlorobenzene	0.652	0.181	"	0.908	ND	71.8	10-133				
1,2-Diphenylhydrazine (as Azobenzene)	0.602	0.0909	"	0.908	ND	66.3	10-144				
2,3,4,6-Tetrachlorophenol	0.726	0.181	"	0.908	ND	79.9	30-130				
2,4,5-Trichlorophenol	0.643	0.0909	"	0.908	ND	70.9	10-127				
2,4,6-Trichlorophenol	0.631	0.0909	"	0.908	ND	69.5	10-132				
2,4-Dichlorophenol	0.643	0.0909	"	0.908	ND	70.9	10-128				
2,4-Dimethylphenol	0.614	0.0909	"	0.908	ND	67.6	10-137				
2,4-Dinitrophenol	0.421	0.181	"	0.908	ND	46.3	10-171				
2,4-Dinitrotoluene	0.747	0.0909	"	0.908	ND	82.2	16-135				
2,6-Dinitrotoluene	0.742	0.0909	"	0.908	ND	81.8	18-131				
2-Chloronaphthalene	0.598	0.0909	"	0.908	ND	65.8	10-129				
2-Chlorophenol	0.638	0.0909	"	0.908	ND	70.3	15-116				
2-Methylnaphthalene	0.615	0.0909	"	0.908	ND	67.8	10-147				
2-Methylphenol	0.615	0.0909	"	0.908	ND	67.8	10-136				
2-Nitroaniline	0.673	0.181	"	0.908	ND	74.1	10-137				
2-Nitrophenol	0.782	0.0909	"	0.908	ND	86.2	10-129				
3- & 4-Methylphenols	0.553	0.0909	"	0.908	ND	60.9	10-123				
3,3-Dichlorobenzidine	0.196	0.0909	"	0.908	ND	21.6	10-155				
3-Nitroaniline	0.541	0.181	"	0.908	ND	59.6	12-133				
4,6-Dinitro-2-methylphenol	0.672	0.181	"	0.908	ND	74.0	10-155				
4-Bromophenyl phenyl ether	0.588	0.0909	"	0.908	ND	64.7	14-128				
4-Chloro-3-methylphenol	0.630	0.0909	"	0.908	ND	69.4	10-134				
4-Chloroaniline	0.509	0.0909	"	0.908	ND	56.1	10-145				
4-Chlorophenyl phenyl ether	0.562	0.0909	"	0.908	ND	61.9	14-130				
4-Nitroaniline	0.538	0.181	"	0.908	ND	59.3	10-147				
4-Nitrophenol	0.615	0.181	"	0.908	ND	67.8	10-137				
Acenaphthene	0.589	0.0909	"	0.908	ND	64.9	10-146				
Acenaphthylene	0.586	0.0909	"	0.908	ND	64.6	10-134				
Acetophenone	0.624	0.0909	"	0.908	ND	68.7	10-116				
Aniline	0.436	0.364	"	0.908	ND	48.1	10-123				
Anthracene	0.620	0.0909	"	0.908	ND	68.3	10-142				
Atrazine	0.637	0.0909	"	0.908	ND	70.2	19-115				
Benzaldehyde	0.622	0.0909	"	0.908	ND	68.6	10-125				
Benzo(a)anthracene	0.622	0.0909	"	0.908	0.0700	60.8	10-158				
Benzo(a)pyrene	0.590	0.0909	"	0.908	0.0543	59.1	10-180				
Benzo(b)fluoranthene	0.572	0.0909	"	0.908	0.0472	57.8	10-200				
Benzo(g,h,i)perylene	0.612	0.0909	"	0.908	ND	67.4	10-138				
Benzo(k)fluoranthene	0.575	0.0909	"	0.908	0.0479	58.1	10-197				
Benzoic acid	0.800	0.0909	"	0.908	ND	88.1	10-166				
Benzyl alcohol	0.619	0.0909	"	0.908	ND	68.2	12-124				
Benzyl butyl phthalate	0.636	0.0909	"	0.908	ND	70.1	10-154				
Bis(2-chloroethoxy)methane	0.596	0.0909	"	0.908	ND	65.7	10-132				
Bis(2-chloroethyl)ether	0.655	0.0909	"	0.908	ND	72.2	10-119				
Bis(2-chloroisopropyl)ether	0.613	0.0909	"	0.908	ND	67.5	10-139				
Bis(2-ethylhexyl)phthalate	0.678	0.0909	"	0.908	ND	74.6	10-167				
Caprolactam	0.816	0.181	"	0.908	ND	89.8	10-132				
Carbazole	0.588	0.0909	"	0.908	ND	64.8	10-167				
Chrysene	0.640	0.0909	"	0.908	0.0764	62.1	10-156				
Dibenzo(a,h)anthracene	0.601	0.0909	"	0.908	ND	66.2	10-137				
Dibenzofuran	0.574	0.0909	"	0.908	ND	63.2	10-147				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10740 - EPA 3546 SVOA

Matrix Spike (BH10740-MS1)	Matrix Spike	*Source sample: 21H0480-01 (Matrix Spike)					Prepared: 08/13/2021 Analyzed: 08/16/2021	
Diethyl phthalate	0.560	0.0909	mg/kg dry	0.908	ND	61.7	20-120	
Dimethyl phthalate	0.566	0.0909	"	0.908	ND	62.3	18-131	
Di-n-butyl phthalate	0.580	0.0909	"	0.908	ND	63.8	10-137	
Di-n-octyl phthalate	0.629	0.0909	"	0.908	ND	69.3	10-180	
Diphenylamine	0.707	0.181	"	0.908	ND	77.8	40-140	
Fluoranthene	0.655	0.0909	"	0.908	0.141	56.7	10-160	
Fluorene	0.592	0.0909	"	0.908	ND	65.2	10-157	
Hexachlorobenzene	0.556	0.0909	"	0.908	ND	61.3	10-137	
Hexachlorobutadiene	0.592	0.0909	"	0.908	ND	65.2	10-132	
Hexachlorocyclopentadiene	0.546	0.0909	"	0.908	ND	60.2	10-106	
Hexachloroethane	0.590	0.0909	"	0.908	ND	65.0	10-110	
Indeno(1,2,3-cd)pyrene	0.593	0.0909	"	0.908	ND	65.4	10-144	
Isophorone	0.601	0.0909	"	0.908	ND	66.2	10-132	
Naphthalene	0.620	0.0909	"	0.908	ND	68.2	10-141	
Nitrobenzene	0.670	0.0909	"	0.908	ND	73.8	10-131	
N-Nitrosodimethylamine	0.532	0.0909	"	0.908	ND	58.6	10-126	
N-nitroso-di-n-propylamine	0.591	0.0909	"	0.908	ND	65.1	10-125	
N-Nitrosodiphenylamine	0.679	0.0909	"	0.908	ND	74.8	10-177	
Pentachlorophenol	0.666	0.0909	"	0.908	ND	73.4	10-153	
Phenanthrene	0.621	0.0909	"	0.908	0.111	56.2	10-148	
Phenol	0.712	0.0909	"	0.908	ND	78.5	10-126	
Pyrene	0.747	0.0909	"	0.908	0.164	64.2	10-165	
Pyridine	0.427	0.364	"	0.908	ND	47.0	10-83	
Surrogate: SURR: 2-Fluorophenol	1.26		"	1.82		69.4	20-108	
Surrogate: SURR: Phenol-d5	1.23		"	1.82		67.5	23-114	
Surrogate: SURR: Nitrobenzene-d5	0.704		"	0.908		77.6	22-108	
Surrogate: SURR: 2-Fluorobiphenyl	0.597		"	0.908		65.8	21-113	
Surrogate: SURR: 2,4,6-Tribromophenol	1.49		"	1.82		82.0	19-110	
Surrogate: SURR: Terphenyl-d14	0.644		"	0.908		71.0	24-116	



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10740 - EPA 3546 SVOA											
Matrix Spike Dup (BH10740-1) Matrix Spike Dup						Source sample: 21H0480-01 (Matrix Spike Dup)					
						Prepared: 08/13/2021 Analyzed: 08/17/2021					
1,1-Biphenyl	0.651	0.0909	mg/kg dry	0.908	ND	71.7	10-130		3.64	30	
1,2,4,5-Tetrachlorobenzene	0.697	0.181	"	0.908	ND	76.8	10-133		6.67	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.621	0.0909	"	0.908	ND	68.4	10-144		3.09	30	
2,3,4,6-Tetrachlorophenol	0.772	0.181	"	0.908	ND	85.0	30-130		6.21	30	
2,4,5-Trichlorophenol	0.651	0.0909	"	0.908	ND	71.7	10-127		1.12	30	
2,4,6-Trichlorophenol	0.671	0.0909	"	0.908	ND	73.9	10-132		6.13	30	
2,4-Dichlorophenol	0.671	0.0909	"	0.908	ND	73.9	10-128		4.20	30	
2,4-Dimethylphenol	0.629	0.0909	"	0.908	ND	69.3	10-137		2.45	30	
2,4-Dinitrophenol	0.480	0.181	"	0.908	ND	52.9	10-171		13.2	30	
2,4-Dinitrotoluene	0.772	0.0909	"	0.908	ND	85.0	16-135		3.35	30	
2,6-Dinitrotoluene	0.757	0.0909	"	0.908	ND	83.4	18-131		1.94	30	
2-Chloronaphthalene	0.627	0.0909	"	0.908	ND	69.1	10-129		4.86	30	
2-Chlorophenol	0.659	0.0909	"	0.908	ND	72.6	15-116		3.25	30	
2-Methylnaphthalene	0.631	0.0909	"	0.908	ND	69.5	10-147		2.56	30	
2-Methylphenol	0.627	0.0909	"	0.908	ND	69.1	10-136		1.99	30	
2-Nitroaniline	0.699	0.181	"	0.908	ND	77.0	10-137		3.81	30	
2-Nitrophenol	0.822	0.0909	"	0.908	ND	90.6	10-129		4.98	30	
3- & 4-Methylphenols	0.565	0.0909	"	0.908	ND	62.2	10-123		2.21	30	
3,3-Dichlorobenzidine	0.215	0.0909	"	0.908	ND	23.7	10-155		9.19	30	
3-Nitroaniline	0.606	0.181	"	0.908	ND	66.8	12-133		11.4	30	
4,6-Dinitro-2-methylphenol	0.728	0.181	"	0.908	ND	80.2	10-155		7.99	30	
4-Bromophenyl phenyl ether	0.606	0.0909	"	0.908	ND	66.8	14-128		3.16	30	
4-Chloro-3-methylphenol	0.646	0.0909	"	0.908	ND	71.1	10-134		2.51	30	
4-Chloroaniline	0.508	0.0909	"	0.908	ND	56.0	10-145		0.143	30	
4-Chlorophenyl phenyl ether	0.589	0.0909	"	0.908	ND	64.9	14-130		4.67	30	
4-Nitroaniline	0.588	0.181	"	0.908	ND	64.8	10-147		8.90	30	
4-Nitrophenol	0.661	0.181	"	0.908	ND	72.8	10-137		7.17	30	
Acenaphthene	0.617	0.0909	"	0.908	ND	67.9	10-146		4.58	30	
Acenaphthylene	0.617	0.0909	"	0.908	ND	67.9	10-134		5.07	30	
Acetophenone	0.655	0.0909	"	0.908	ND	72.2	10-116		4.88	30	
Aniline	0.464	0.364	"	0.908	ND	51.1	10-123		6.13	30	
Anthracene	0.627	0.0909	"	0.908	ND	69.0	10-142		1.05	30	
Atrazine	0.659	0.0909	"	0.908	ND	72.6	19-115		3.36	30	
Benzaldehyde	0.622	0.0909	"	0.908	ND	68.5	10-125		0.117	30	
Benzo(a)anthracene	0.635	0.0909	"	0.908	0.0700	62.3	10-158		2.20	30	
Benzo(a)pyrene	0.600	0.0909	"	0.908	0.0543	60.1	10-180		1.59	30	
Benzo(b)fluoranthene	0.586	0.0909	"	0.908	0.0472	59.4	10-200		2.38	30	
Benzo(g,h,i)perylene	0.635	0.0909	"	0.908	ND	70.0	10-138		3.73	30	
Benzo(k)fluoranthene	0.592	0.0909	"	0.908	0.0479	59.9	10-197		2.86	30	
Benzoic acid	0.811	0.0909	"	0.908	ND	89.3	10-166		1.35	30	
Benzyl alcohol	0.643	0.0909	"	0.908	ND	70.8	12-124		3.80	30	
Benzyl butyl phthalate	0.675	0.0909	"	0.908	ND	74.3	10-154		5.87	30	
Bis(2-chloroethoxy)methane	0.625	0.0909	"	0.908	ND	68.9	10-132		4.76	30	
Bis(2-chloroethyl)ether	0.637	0.0909	"	0.908	ND	70.2	10-119		2.81	30	
Bis(2-chloroisopropyl)ether	0.625	0.0909	"	0.908	ND	68.9	10-139		1.99	30	
Bis(2-ethylhexyl)phthalate	0.717	0.0909	"	0.908	ND	79.0	10-167		5.62	30	
Caprolactam	0.796	0.181	"	0.908	ND	87.7	10-132		2.43	30	
Carbazole	0.604	0.0909	"	0.908	ND	66.6	10-167		2.68	30	
Chrysene	0.662	0.0909	"	0.908	0.0764	64.5	10-156		3.46	30	
Dibenzo(a,h)anthracene	0.634	0.0909	"	0.908	ND	69.8	10-137		5.41	30	
Dibenzofuran	0.609	0.0909	"	0.908	ND	67.0	10-147		5.90	30	



Semivolatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10740 - EPA 3546 SVOA											
Matrix Spike Dup (BH10740-1) Matrix Spike Dup						Source sample: 21H0480-01 (Matrix Spike Dup)					
						Prepared: 08/13/2021 Analyzed: 08/17/2021					
Diethyl phthalate	0.575	0.0909	mg/kg dry	0.908	ND	63.4	20-120		2.69	30	
Dimethyl phthalate	0.578	0.0909	"	0.908	ND	63.7	18-131		2.16	30	
Di-n-butyl phthalate	0.596	0.0909	"	0.908	ND	65.7	10-137		2.84	30	
Di-n-octyl phthalate	0.658	0.0909	"	0.908	ND	72.5	10-180		4.51	30	
Diphenylamine	0.722	0.181	"	0.908	ND	79.5	40-140		2.14	30	
Fluoranthene	0.654	0.0909	"	0.908	0.141	56.6	10-160		0.111	30	
Fluorene	0.606	0.0909	"	0.908	ND	66.7	10-157		2.30	30	
Hexachlorobenzene	0.577	0.0909	"	0.908	ND	63.6	10-137		3.72	30	
Hexachlorobutadiene	0.609	0.0909	"	0.908	ND	67.0	10-132		2.78	30	
Hexachlorocyclopentadiene	0.560	0.0909	"	0.908	ND	61.7	10-106		2.50	30	
Hexachloroethane	0.577	0.0909	"	0.908	ND	63.5	10-110		2.36	30	
Indeno(1,2,3-cd)pyrene	0.602	0.0909	"	0.908	ND	66.3	10-144		1.46	30	
Isophorone	0.616	0.0909	"	0.908	ND	67.8	10-132		2.39	30	
Naphthalene	0.643	0.0909	"	0.908	ND	70.8	10-141		3.68	30	
Nitrobenzene	0.679	0.0909	"	0.908	ND	74.8	10-131		1.29	30	
N-Nitrosodimethylamine	0.558	0.0909	"	0.908	ND	61.4	10-126		4.80	30	
N-nitroso-di-n-propylamine	0.631	0.0909	"	0.908	ND	69.5	10-125		6.54	30	
N-Nitrosodiphenylamine	0.723	0.0909	"	0.908	ND	79.6	10-177		6.22	30	
Pentachlorophenol	0.667	0.0909	"	0.908	ND	73.5	10-153		0.218	30	
Phenanthrene	0.634	0.0909	"	0.908	0.111	57.6	10-148		2.08	30	
Phenol	0.711	0.0909	"	0.908	ND	78.3	10-126		0.204	30	
Pyrene	0.744	0.0909	"	0.908	0.164	64.0	10-165		0.292	30	
Pyridine	0.436	0.364	"	0.908	ND	48.0	10-83		2.02	30	
Surrogate: SURR: 2-Fluorophenol	1.29		"	1.82		71.0	20-108				
Surrogate: SURR: Phenol-d5	1.23		"	1.82		67.6	23-114				
Surrogate: SURR: Nitrobenzene-d5	0.715		"	0.908		78.7	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	0.613		"	0.908		67.5	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1.54		"	1.82		84.8	19-110				
Surrogate: SURR: Terphenyl-d14	0.672		"	0.908		74.0	24-116				



Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BH10865 - EPA 3550C												
Blank (BH10865-BLK1)	Blank								Prepared & Analyzed: 08/17/2021			
1,4-Dioxane	ND	19.8	ug/kg									
<i>Surrogate: 1,4-Dioxane-d8</i>	386		"	495		78.0	39-127.5					
LCS (BH10865-BS1)	LCS								Prepared & Analyzed: 08/17/2021			
1,4-Dioxane	310	19.8	ug/kg	495		62.6	40-130					
<i>Surrogate: 1,4-Dioxane-d8</i>	396		"	495		80.0	39-127.5					
Matrix Spike (BH10865-MS1)	Matrix Spike	*Source sample: 21H0719-02 (Matrix Spike)								Prepared & Analyzed: 08/17/2021		
1,4-Dioxane	135	19.8	ug/kg	495	ND	27.2	40-130	Low Bias				
<i>Surrogate: 1,4-Dioxane-d8</i>	762		"	495		154	40-130					
Matrix Spike Dup (BH10865-MS1)	Matrix Spike Dup	*Source sample: 21H0719-02 (Matrix Spike Dup)								Prepared & Analyzed: 08/17/2021		
1,4-Dioxane	90.1	19.8	ug/kg	495	ND	18.2	40-130	Low Bias	39.6	30	Non-dir.	
<i>Surrogate: 1,4-Dioxane-d8</i>	1090		"	495		220	40-130					



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10744 - SPE PFAS Extraction-Soil-EPA 537m

Blank (BH10744-BLK1) Blank

Prepared: 08/13/2021 Analyzed: 08/17/2021

Perfluorobutanesulfonic acid (PFBS)	ND	0.235	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.235	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.235	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.235	"								
Perfluorooctanoic acid (PFOA)	ND	0.235	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.235	"								
Perfluorononanoic acid (PFNA)	ND	0.235	"								
Perfluorodecanoic acid (PFDA)	ND	0.235	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.235	"								
Perfluorododecanoic acid (PFDoA)	ND	0.235	"								
Perfluorotridecanoic acid (PFTriDA)	ND	0.235	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.235	"								
N-MeFOSAA	ND	0.235	"								
N-EtFOSAA	ND	0.235	"								
Perfluoropentanoic acid (PFPeA)	ND	0.235	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.235	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.235	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.235	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	ND	0.235	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	ND	0.235	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.235	"								
Surrogate: M3PFBS	4.00		"	4.36		91.6	25-150				
Surrogate: M5PFHxA	4.79		"	4.70		102	25-150				
Surrogate: M4PFHpA	4.69		"	4.70		99.8	25-150				
Surrogate: M3PFHxS	4.26		"	4.44		95.9	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.40		"	4.70		93.7	25-150				
Surrogate: M6PFDA	4.34		"	4.70		92.4	25-150				
Surrogate: M7PFUdA	3.27		"	4.70		69.6	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	2.98		"	4.70		63.4	25-150				
Surrogate: M2PFTeDA	3.40		"	4.70		72.4	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	4.65		"	4.70		99.0	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	4.04		"	4.50		89.9	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.64		"	4.70		98.8	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.61		"	4.70		76.8	10-150				
Surrogate: d3-N-MeFOSAA	4.10		"	4.70		87.2	25-150				
Surrogate: d5-N-EtFOSAA	4.27		"	4.70		90.9	25-150				
Surrogate: M2-6:2 FTS	5.87		"	4.46		132	25-200				
Surrogate: M2-8:2 FTS	6.14		"	4.50		136	25-200				
Surrogate: M9PFNA	4.44		"	4.70		94.5	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10744 - SPE PFAS Extraction-Soil-EPA 537m											
LCS (BH10744-BS1)	LCS	Prepared: 08/13/2021 Analyzed: 08/17/2021									
Perfluorobutanesulfonic acid (PFBS)	5.26	0.234	ug/kg wet	4.14		127	50-130				
Perfluorohexanoic acid (PFHxA)	4.88	0.234	"	4.68		104	50-130				
Perfluoroheptanoic acid (PFHpA)	4.82	0.234	"	4.68		103	50-130				
Perfluorohexanesulfonic acid (PFHxS)	5.05	0.234	"	4.27		118	50-130				
Perfluorooctanoic acid (PFOA)	5.14	0.234	"	4.68		110	50-130				
Perfluorooctanesulfonic acid (PFOS)	4.59	0.234	"	4.34		106	50-130				
Perfluorononanoic acid (PFNA)	4.89	0.234	"	4.68		104	50-130				
Perfluorodecanoic acid (PFDA)	4.77	0.234	"	4.68		102	50-130				
Perfluoroundecanoic acid (PFUnA)	5.49	0.234	"	4.68		117	50-130				
Perfluorododecanoic acid (PFDoA)	5.07	0.234	"	4.68		108	50-130				
Perfluorotridecanoic acid (PFTriDA)	5.20	0.234	"	4.68		111	50-130				
Perfluorotetradecanoic acid (PFTA)	5.26	0.234	"	4.68		112	50-130				
N-MeFOSAA	5.36	0.234	"	4.68		115	50-130				
N-EtFOSAA	4.69	0.234	"	4.68		100	50-130				
Perfluoropentanoic acid (PFPeA)	5.09	0.234	"	4.68		109	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	5.44	0.234	"	4.68		116	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.59	0.234	"	4.45		126	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	3.95	0.234	"	4.52		87.5	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	8.07	0.234	"	4.45		181	50-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	9.20	0.234	"	4.49		205	50-200	High Bias			
Perfluoro-n-butanoic acid (PFBA)	5.22	0.234	"	4.68		112	50-130				
<i>Surrogate: M3PFBS</i>	3.78		"	4.35		86.9	25-150				
<i>Surrogate: M5PFHxA</i>	4.26		"	4.68		91.0	25-150				
<i>Surrogate: M4PFHpA</i>	4.34		"	4.68		92.6	25-150				
<i>Surrogate: M3PFHxS</i>	3.89		"	4.43		87.8	25-150				
<i>Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)</i>	4.21		"	4.68		89.8	25-150				
<i>Surrogate: M6PFDA</i>	4.30		"	4.68		91.9	25-150				
<i>Surrogate: M7PFUdA</i>	3.49		"	4.68		74.6	25-150				
<i>Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)</i>	3.66		"	4.68		78.2	25-150				
<i>Surrogate: M2PFTeDA</i>	3.66		"	4.68		78.1	10-150				
<i>Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)</i>	4.15		"	4.68		88.6	25-150				
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)</i>	3.91		"	4.48		87.3	25-150				
<i>Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)</i>	4.20		"	4.68		89.6	25-150				
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)</i>	3.36		"	4.68		71.8	10-150				
<i>Surrogate: d3-N-MeFOSAA</i>	4.20		"	4.68		89.7	25-150				
<i>Surrogate: d5-N-EtFOSAA</i>	4.38		"	4.68		93.6	25-150				
<i>Surrogate: M2-6:2 FTS</i>	6.35		"	4.44		143	25-200				
<i>Surrogate: M2-8:2 FTS</i>	7.61		"	4.48		170	25-200				
<i>Surrogate: M9PFNA</i>	4.65		"	4.68		99.2	25-150				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10717 - EPA 3550C

Blank (BH10717-BLK1)	Blank	Prepared: 08/13/2021 Analyzed: 08/15/2021									
4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								

Surrogate: Decachlorobiphenyl	0.0447		"	0.0664		67.3	30-150				
Surrogate: Tetrachloro-m-xylene	0.0565		"	0.0664		85.1	30-150				

LCS (BH10717-BS1)	LCS	Prepared: 08/13/2021 Analyzed: 08/15/2021									
4,4'-DDD	0.0349	0.00164	mg/kg wet	0.0332		105	40-140				
4,4'-DDE	0.0241	0.00164	"	0.0332		72.4	40-140				
4,4'-DDT	0.0231	0.00164	"	0.0332		69.6	40-140				
Aldrin	0.0388	0.00164	"	0.0332		117	40-140				
alpha-BHC	0.0346	0.00164	"	0.0332		104	40-140				
alpha-Chlordane	0.0377	0.00164	"	0.0332		114	40-140				
beta-BHC	0.0372	0.00164	"	0.0332		112	40-140				
delta-BHC	0.0357	0.00164	"	0.0332		107	40-140				
Dieldrin	0.0403	0.00164	"	0.0332		121	40-140				
Endosulfan I	0.0438	0.00164	"	0.0332		132	40-140				
Endosulfan II	0.0421	0.00164	"	0.0332		127	40-140				
Endosulfan sulfate	0.0333	0.00164	"	0.0332		100	40-140				
Endrin	0.0312	0.00164	"	0.0332		93.9	40-140				
Endrin aldehyde	0.0342	0.00164	"	0.0332		103	40-140				
Endrin ketone	0.0365	0.00164	"	0.0332		110	40-140				
gamma-BHC (Lindane)	0.0357	0.00164	"	0.0332		107	40-140				
gamma-Chlordane	0.0385	0.00164	"	0.0332		116	40-140				
Heptachlor	0.0405	0.00164	"	0.0332		122	40-140				
Heptachlor epoxide	0.0403	0.00164	"	0.0332		121	40-140				
Methoxychlor	0.0138	0.00164	"	0.0332		41.6	40-140				

Surrogate: Decachlorobiphenyl	0.0688		"	0.0664		103	30-150				
Surrogate: Tetrachloro-m-xylene	0.0637		"	0.0664		95.9	30-150				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch Y1G1207 - BE10937

Performance Mix (Y1G1207-F Performance Mix)							Prepared & Analyzed: 07/09/2021				
4,4'-DDD	9.58		ng/mL	0.00			0-200				
4,4'-DDE	1.13		"	0.00			0-200				
4,4'-DDT	143		"	200		71.4	0-200				
Endrin	88.9		"	100		88.9	0-200				
Endrin aldehyde	1.40		"	0.00			0-200				
Endrin ketone	4.35		"	0.00			0-200				

Batch Y1H1608 - BH10662

Performance Mix (Y1H1608-F Performance Mix)							Prepared & Analyzed: 08/15/2021				
4,4'-DDD	16.6		ng/mL	0.00			0-200				
4,4'-DDE	3.16		"	0.00			0-200				
4,4'-DDT	202		"	200		101	0-200				
Endrin	114		"	100		114	0-200				
Endrin aldehyde	3.24		"	0.00			0-200				
Endrin ketone	12.1		"	0.00			0-200				



Polychlorinated Biphenyls by GC/ECD - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10717 - EPA 3550C											
Blank (BH10717-BLK2)	Blank								Prepared & Analyzed: 08/13/2021		
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0601</i>		"	<i>0.0664</i>		<i>90.5</i>	<i>30-120</i>				
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0385</i>		"	<i>0.0664</i>		<i>58.0</i>	<i>30-120</i>				
LCS (BH10717-BS2)	LCS								Prepared & Analyzed: 08/13/2021		
Aroclor 1016	0.210	0.0166	mg/kg wet	0.332		63.1	40-130				
Aroclor 1260	0.193	0.0166	"	0.332		58.0	40-130				
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0392</i>		"	<i>0.0664</i>		<i>59.0</i>	<i>30-120</i>				
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0266</i>		"	<i>0.0664</i>		<i>40.0</i>	<i>30-120</i>				
Batch Y1H1332 - BH10634											
Aroclor Reference (Y1H1332- Aroclor Reference)									Prepared & Analyzed: 08/13/2021		
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.179</i>		<i>ug/mL</i>	<i>0.200</i>		<i>89.5</i>					
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.159</i>		"	<i>0.200</i>		<i>79.5</i>					



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10737 - EPA 3050B

Blank (BH10737-BLK1)	Blank	Prepared: 08/13/2021 Analyzed: 08/16/2021									
Aluminum	ND	5.00	mg/kg wet								
Antimony	ND	2.50	"								
Arsenic	ND	1.50	"								
Barium	ND	2.50	"								
Beryllium	ND	0.050	"								
Cadmium	ND	0.300	"								
Calcium	19.2	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.400	"								
Copper	ND	2.00	"								
Iron	ND	25.0	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	1.00	"								
Potassium	ND	5.00	"								
Selenium	ND	2.50	"								
Silver	ND	0.500	"								
Sodium	ND	50.0	"								
Thallium	ND	2.50	"								
Vanadium	ND	1.00	"								
Zinc	ND	2.50	"								

Duplicate (BH10737-DUP1)	Duplicate	*Source sample: 21H0655-01 (414_EP05_13)										Prepared: 08/13/2021 Analyzed: 08/16/2021	
Aluminum	8420	5.37	mg/kg dry		9020				6.92		35		
Antimony	ND	2.69	"		ND						35		
Arsenic	ND	1.61	"		ND						35		
Barium	52.9	2.69	"		55.7			5.20			35		
Beryllium	ND	0.054	"		ND						35		
Cadmium	ND	0.322	"		ND						35		
Calcium	69000	5.37	"		55900			20.9			35		
Chromium	14.7	0.537	"		16.4			10.6			35		
Cobalt	8.15	0.430	"		8.58			5.07			35		
Copper	20.0	2.15	"		21.2			5.82			35		
Iron	12900	26.9	"		13000			0.531			35		
Lead	8.71	0.537	"		7.93			9.38			35		
Magnesium	39500	5.37	"		34100			14.4			35		
Manganese	245	0.537	"		263			7.07			35		
Nickel	13.1	1.07	"		13.9			5.95			35		
Potassium	2030	5.37	"		2180			7.11			35		
Selenium	9.08	2.69	"		7.36			20.9			35		
Silver	ND	0.537	"		ND						35		
Sodium	173	53.7	"		167			3.90			35		
Thallium	ND	2.69	"		ND						35		
Vanadium	25.7	1.07	"		22.0			15.4			35		
Zinc	36.0	2.69	"		39.3			8.75			35		



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit

Batch BH10737 - EPA 3050B

Matrix Spike (BH10737-MS1)	Matrix Spike	*Source sample: 21H0655-01 (414_EP05_13)					Prepared: 08/13/2021 Analyzed: 08/16/2021				
Aluminum	8370	5.37	mg/kg dry	215	9020	NR	75-125	Low Bias			
Antimony	6.10	2.69	"	26.9	ND	22.7	75-125	Low Bias			
Arsenic	191	1.61	"	215	ND	89.1	75-125				
Barium	239	2.69	"	215	55.7	85.5	75-125				
Beryllium	2.36	0.054	"	5.37	ND	43.9	75-125	Low Bias			
Cadmium	4.67	0.322	"	5.37	ND	87.0	75-125				
Calcium	60600	5.37	"	107	55900	NR	75-125	High Bias			
Chromium	31.5	0.537	"	21.5	16.4	70.6	75-125	Low Bias			
Cobalt	53.3	0.430	"	53.7	8.58	83.2	75-125				
Copper	44.0	2.15	"	26.9	21.2	84.9	75-125				
Iron	12200	26.9	"	107	13000	NR	75-125	Low Bias			
Lead	53.7	0.537	"	53.7	7.93	85.2	75-125				
Magnesium	36600	5.37	"	107	34100	NR	75-125	High Bias			
Manganese	269	0.537	"	53.7	263	11.2	75-125	Low Bias			
Nickel	62.4	1.07	"	53.7	13.9	90.4	75-125				
Potassium	2260	5.37	"	107	2180	70.7	75-125	Low Bias			
Selenium	182	2.69	"	215	7.36	81.3	75-125				
Silver	1.27	0.537	"	5.37	ND	23.6	75-125	Low Bias			
Sodium	209	53.7	"	107	167	39.2	75-125	Low Bias			
Thallium	184	2.69	"	215	ND	85.4	75-125				
Vanadium	67.3	1.07	"	53.7	22.0	84.3	75-125				
Zinc	76.8	2.69	"	53.7	39.3	69.9	75-125	Low Bias			

Post Spike (BH10737-PS1)	Post Spike	*Source sample: 21H0655-01 (414_EP05_13)					Prepared: 08/13/2021 Analyzed: 08/16/2021				
Aluminum	85.7		ug/mL	2.00	84.0	83.9	75-125				
Antimony	0.712		"	0.250	-0.013	285	75-125	High Bias			
Arsenic	2.18		"	2.00	0.003	109	75-125				
Barium	2.63		"	2.00	0.518	106	75-125				
Beryllium	0.031		"	0.0500	-0.024	61.5	75-125	Low Bias			
Cadmium	0.065		"	0.0500	0.002	125	75-125				
Calcium	513		"	1.00	520	NR	75-125	Low Bias			
Chromium	0.354		"	0.200	0.152	101	75-125				
Cobalt	0.608		"	0.500	0.080	106	75-125				
Copper	0.505		"	0.250	0.197	123	75-125				
Iron	121		"	1.00	121	NR	75-125	Low Bias			
Lead	0.619		"	0.500	0.074	109	75-125				
Magnesium	314		"	1.00	318	NR	75-125	Low Bias			
Manganese	2.97		"	0.500	2.45	104	75-125				
Nickel	0.702		"	0.500	0.129	115	75-125				
Potassium	21.3		"	1.00	20.3	104	75-125				
Selenium	2.06		"	2.00	0.069	99.6	75-125				
Silver	0.032		"	0.0500	-0.036	64.8	75-125	Low Bias			
Sodium	2.38		"	1.00	1.55	82.2	75-125				
Thallium	2.08		"	2.00	-0.063	104	75-125				
Vanadium	0.773		"	0.500	0.205	114	75-125				
Zinc	0.885		"	0.500	0.366	104	75-125				



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10737 - EPA 3050B

Reference (BH10737-SRMI)	Reference	Prepared: 08/13/2021 Analyzed: 08/16/2021									
Aluminum	8990	5.00	mg/kg wet	8130		111	49.9-150.1				
Antimony	112	2.50	"	134		83.6	19.3-250				
Arsenic	183	1.50	"	156		117	69.9-130.1				
Barium	278	2.50	"	239		116	74.9-124.7				
Beryllium	181	0.050	"	169		107	75.1-125.4				
Cadmium	143	0.300	"	137		104	75.2-124.8				
Calcium	5160	5.00	"	4760		108	72.7-127.5				
Chromium	163	0.500	"	154		106	70.1-129.9				
Cobalt	130	0.400	"	121		107	75-124.8				
Copper	64.9	2.00	"	54.9		118	74.9-125				
Iron	16800	25.0	"	14100		119	34.9-164.5				
Lead	145	0.500	"	130		112	71.8-128.5				
Magnesium	2540	5.00	"	2320		110	62.1-137.9				
Manganese	317	0.500	"	269		118	74-126.4				
Nickel	66.4	1.00	"	53.9		123	69.9-129.9				
Potassium	2340	5.00	"	2020		116	58.9-141.1				
Selenium	154	2.50	"	167		92.3	67.7-132.3				
Silver	38.1	0.500	"	33.6		113	68.5-131.3				
Sodium	115	50.0	"	133		86.8	35-165.4				
Thallium	123	2.50	"	112		110	67.9-131.3				
Vanadium	68.0	1.00	"	62.6		109	59.1-141.1				
Zinc	168	2.50	"	158		107	70.3-129.7				



Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10902 - EPA 7473 soil											
Blank (BH10902-BLK1)	Blank								Prepared & Analyzed: 08/17/2021		
Mercury	ND	0.0300	mg/kg wet								
Reference (BH10902-SRM1)	Reference								Prepared & Analyzed: 08/17/2021		
Mercury	25.142	0.0300	mg/kg wet	27.2		92.4	59.9-140.1				



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BH10720 - EPA SW846-3060												
Blank (BH10720-BLK1)	Blank								Prepared & Analyzed: 08/13/2021			
Chromium, Hexavalent	ND	0.500	mg/kg wet									
Duplicate (BH10720-DUP1)	Duplicate	*Source sample: 21H0481-01 (Duplicate)								Prepared & Analyzed: 08/13/2021		
Chromium, Hexavalent	1.82	0.540	mg/kg dry		2.16				17.4	35		
Matrix Spike (BH10720-MS1)	Matrix Spike	*Source sample: 21H0481-01 (Matrix Spike)								Prepared & Analyzed: 08/13/2021		
Chromium, Hexavalent	18.6	0.540	mg/kg dry	21.6	2.16	76.2	75-125					
Matrix Spike (BH10720-MS2)	Matrix Spike	*Source sample: 21H0481-01 (Matrix Spike)								Prepared & Analyzed: 08/13/2021		
Chromium, Hexavalent	15.6	0.540	mg/kg dry	21.6	2.16	62.2	75-125	Low Bias				
Reference (BH10720-SRM1)	Reference								Prepared & Analyzed: 08/13/2021			
Chromium, Hexavalent	62.9		mg/L	109		57.7	30-169.7					
Batch BH10721 - Analysis Preparation Soil												
Blank (BH10721-BLK1)	Blank								Prepared & Analyzed: 08/13/2021			
Cyanide, total	ND	0.500	mg/kg wet									
Duplicate (BH10721-DUP1)	Duplicate	*Source sample: 21H0521-01 (Duplicate)								Prepared & Analyzed: 08/13/2021		
Cyanide, total	ND	0.500	mg/kg wet		ND					15		
Matrix Spike (BH10721-MS1)	Matrix Spike	*Source sample: 21H0521-01 (Matrix Spike)								Prepared & Analyzed: 08/13/2021		
Cyanide, total	7.14	0.500	mg/kg wet	10.0	ND	71.4	79.6-107	Low Bias				
Reference (BH10721-SRM1)	Reference								Prepared & Analyzed: 08/13/2021			
Cyanide, total	97.2		ug/mL	91.9		106	42.22-159.96					



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10727 - % Solids Prep

Duplicate (BH10727-DUP1)	Duplicate	*Source sample: 21H0657-01 (Duplicate)				Prepared & Analyzed: 08/13/2021					
% Solids	55.7	0.100	%		58.6				5.02	20	



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
21H0655-01	414_EP05_13	40mL Vial with Stir Bar-Cool 4° C



Sample and Data Qualifiers Relating to This Work Order

M-SRD1	The serial dilution for this element was outside control limits.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
ICV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
M-BLK	The target analyte was detected above the RL in the batch method blank. All samples showed >10x the concentration in the blank for this analyte. Data are reported.
M-CRL	The RL check for this element recovered outside of control limits.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
S-08	The recovery of this surrogate was outside of QC limits.
PF-CCV-H	The CCV recovery was slightly above acceptable limits for the qualified compound. However, sample results are not biased high because results are corrected for isotope recovery.
PFLH	The recovery for this PFAS compound was above control limits
PTel-VAR	This fluorotelomer acid is known to be unstable in mixtures of standards due to dehydrofluorination and formation of methoxy adducts. The data user should take note. These issues create variability in CCVs, LCs and MSs.
QL-02	This LCS analyte is outside Laboratory Recovery limits due to the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.



- NR Not reported
- RPD Relative Percent Difference
- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



Field Chain-of-Custody Record

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No.
21H0655

Page **1** of **1**

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 www.yorklab.com 800-306-YORK 800-306-9675

Report To:		Invoice To:	
Company Langan	Company Langan	YOUR Project Number 170488401	Turn-Around Time RUSH - Next Day <input checked="" type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> Standard (5-7 Day) <input type="checkbox"/>
Address 21 Penn Plaza, 360 W 37th Street, 8th floor, New York, NY 10018	Address 170488401	YOUR Project Name A14/44A Gerard Ave	
Phone 212-470-5400	Phone 212-470-5400	YOUR POB:	
Contact Kimberly Semor	Contact Kimberly Semor		
E-mail k.semor@langan.com	E-mail k.semor@langan.com		

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Matrix Codes	Samples From	Report / EDD Type (circle selections)	YORK Reg. Comp.
S - soil / solid GW - groundwater DW - drinking water WW - wastewater O - Oil / Other	New York New Jersey Connecticut Pennsylvania Other:	Summary Report <input checked="" type="checkbox"/> QA Report <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B Package <input checked="" type="checkbox"/> Deliverables <input type="checkbox"/> NJDEP SRP HazSite <input type="checkbox"/> Other: <input type="checkbox"/>	Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
414-EPO5-13	S	08/12/21 1500	TLC/Ret 375 VOCs and SVOCs	Box Jar, 100ml jar
			PCBs, Pesticides, metals including Cyanide, hexavalent and trivalent Chromium, PFAS, 1,4-dioxane	Vial set, 250ml Plastic PFAS jar
			* Run for all samples	

Comments: Please also email Lesmail@Langan.com and data.management@Langan.com

Samples collected at time of lab pickup? circle Yes or No

1. Samples Received by / Company Ali	Date/Time 08/12/21 1511	2. Samples Retransmitted by / Company Tavel	Date/Time 8/12/21 1511	3. Samples Received by / Company Tavel	Date/Time 8/12/21 1955
4. Samples Received by / Company	Date/Time	5. Samples Received by / Company	Date/Time	6. Samples Received by / Company	Date/Time

Special Instruction: Field Filtered Lab to Filter

Temperature: **1.1** Degrees C



Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

Attention: Kimberly Semon

Report Date: 08/12/2021

Client Project ID: 170488401

York Project (SDG) No.: 21H0486



CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037

New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
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132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 08/12/2021
Client Project ID: 170488401
York Project (SDG) No.: 21H0486

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Kimberly Semon

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 10, 2021 and listed below. The project was identified as your project: **170488401**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.


Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21H0486-01	414_EP19_17.5	Soil	08/10/2021	08/10/2021
21H0486-02	414_EP14_14.5	Soil	08/10/2021	08/10/2021
21H0486-03	414_EP09_14.5	Soil	08/10/2021	08/10/2021

General Notes for York Project (SDG) No.: 21H0486

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By



Cassie L. Mosher
Laboratory Manager

Date: 08/12/2021





Sample Information

Client Sample ID: 414_EP19_17.5

York Sample ID: 21H0486-01

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:10 pm	<u>Date Received</u> 08/10/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/12/2021 06:24	08/12/2021 15:14	KHA
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/12/2021 06:24	08/12/2021 15:14	KHA
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.035	0.069	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
78-93-3	2-Butanone	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA



Sample Information

Client Sample ID: 414_EP19_17.5

York Sample ID: 21H0486-01

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:10 pm	<u>Date Received</u> 08/10/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
67-64-1	Acetone	ND		mg/kg dry	0.0035	0.0069	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
107-02-8	Acrolein	ND		mg/kg dry	0.0035	0.0069	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
71-43-2	Benzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
75-25-2	Bromoform	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
74-83-9	Bromomethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
75-00-3	Chloroethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
67-66-3	Chloroform	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
74-87-3	Chloromethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
110-82-7	Cyclohexane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
74-95-3	Dibromomethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA



Sample Information

Client Sample ID: 414_EP19_17.5

York Sample ID: 21H0486-01

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:10 pm	<u>Date Received</u> 08/10/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
79-20-9	Methyl acetate	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
75-09-2	Methylene chloride	0.0044	J	mg/kg dry	0.0035	0.0069	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
95-47-6	o-Xylene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0035	0.0069	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
100-42-5	Styrene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
108-88-3	Toluene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA



Sample Information

Client Sample ID: 414_EP19_17.5

York Sample ID: 21H0486-01

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:10 pm	<u>Date Received</u> 08/10/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:14	KHA
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0052	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/12/2021 06:24	08/12/2021 15:14	KHA
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	112 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	103 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	99.6 %			76-130						

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH



Sample Information

Client Sample ID: 414_EP19_17.5

York Sample ID: 21H0486-01

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:10 pm	<u>Date Received</u> 08/10/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
62-53-3	Aniline	ND		mg/kg dry	0.178	0.356	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
92-87-5	Benzidine	ND		mg/kg dry	0.178	0.356	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH



Sample Information

Client Sample ID: 414_EP19_17.5

York Sample ID: 21H0486-01

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:10 pm	<u>Date Received</u> 08/10/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
206-44-0	Fluoranthene	0.0661	J	mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH



Sample Information

Client Sample ID: 414_EP19_17.5

York Sample ID: 21H0486-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21H0486

170488401

Soil

August 10, 2021 2:10 pm

08/10/2021

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
85-01-8	Phenanthrene	0.0448	J	mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
108-95-2	Phenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
129-00-0	Pyrene	0.0576	J	mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH
110-86-1	Pyridine	ND		mg/kg dry	0.178	0.356	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:10	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: SURR: 2-Fluorophenol	49.9 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	46.2 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	54.2 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	48.7 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	61.2 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	50.2 %	24-116



Sample Information

Client Sample ID: 414_EP19_17.5

York Sample ID: 21H0486-01

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:10 pm	<u>Date Received</u> 08/10/2021
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Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.6	1	EPA 8270D SIM Certifications: NELAC-NY10854	08/12/2021 07:45	08/12/2021 15:07	KH
Surrogate Recoveries		Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	66.0 %	39-127.5							

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 16:08	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 16:08	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 16:08	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 16:08	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 16:08	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 16:08	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 16:08	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 16:08	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 16:08	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 16:08	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 16:08	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 16:08	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 16:08	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 16:08	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 16:08	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 16:08	WL



Sample Information

Client Sample ID: 414_EP19_17.5

York Sample ID: 21H0486-01

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:10 pm	<u>Date Received</u> 08/10/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 16:08	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 16:08	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 16:08	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 16:08	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 16:08	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	79.4 %	25-150
Surrogate: M5PFHxA	83.0 %	25-150
Surrogate: M4PFHpA	71.0 %	25-150
Surrogate: M3PFHxS	78.6 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid	83.7 %	25-150
Surrogate: M6PFDA	75.4 %	25-150
Surrogate: M7PFUDA	67.7 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	66.1 %	25-150
Surrogate: M2PFTeDA	54.6 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid	90.7 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfon	70.0 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid	92.6 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfon	65.0 %	10-150
Surrogate: d3-N-MeFOSAA	58.5 %	25-150
Surrogate: d5-N-EtFOSAA	67.1 %	25-150
Surrogate: M2-6:2 FTS	106 %	25-200
Surrogate: M2-8:2 FTS	121 %	25-200
Surrogate: M9PFNA	90.6 %	25-150

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 13:55	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 13:55	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 13:55	CM



Sample Information

Client Sample ID: 414_EP19_17.5

York Sample ID: 21H0486-01

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:10 pm	<u>Date Received</u> 08/10/2021
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 13:55	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 13:55	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/11/2021 12:06	08/12/2021 13:55	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 13:55	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 13:55	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 13:55	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 13:55	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/11/2021 12:06	08/12/2021 13:55	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 13:55	CM
72-20-8	Endrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 13:55	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 13:55	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 13:55	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 13:55	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/11/2021 12:06	08/12/2021 13:55	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 13:55	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 13:55	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 13:55	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 13:55	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0353	5	EPA 8081B Certifications:	08/11/2021 12:06	08/12/2021 13:55	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	30.0 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	43.3 %	30-150							



Sample Information

Client Sample ID: 414_EP19_17.5

York Sample ID: 21H0486-01

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:10 pm	<u>Date Received</u> 08/10/2021
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:09	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:09	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:09	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:09	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:09	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:09	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:09	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications:	08/11/2021 12:06	08/12/2021 14:09	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	53.0 %			30-120					
2051-24-3	Surrogate: Decachlorobiphenyl	28.5 %	S-GC		30-120					

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	10100		mg/kg dry	5.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM
7440-36-0	Antimony	ND		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM
7440-39-3	Barium	69.1		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.326	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM
7440-70-2	Calcium	23400		mg/kg dry	5.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM
7440-47-3	Chromium	15.8		mg/kg dry	0.544	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM
7440-48-4	Cobalt	8.65		mg/kg dry	0.435	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM



Sample Information

Client Sample ID: 414_EP19_17.5

York Sample ID: 21H0486-01

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:10 pm	<u>Date Received</u> 08/10/2021
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	18.0		mg/kg dry	2.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM
7439-89-6	Iron	15400		mg/kg dry	27.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM
7439-92-1	Lead	17.7		mg/kg dry	0.544	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM
7439-95-4	Magnesium	17700		mg/kg dry	5.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM
7439-96-5	Manganese	336		mg/kg dry	0.544	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM
7440-02-0	Nickel	16.9		mg/kg dry	1.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM
7440-09-7	Potassium	2130	B	mg/kg dry	5.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM
7782-49-2	Selenium	ND		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM
7440-22-4	Silver	ND		mg/kg dry	0.544	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM
7440-23-5	Sodium	161		mg/kg dry	54.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM
7440-28-0	Thallium	ND		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM
7440-62-2	Vanadium	21.8		mg/kg dry	1.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM
7440-66-6	Zinc	48.3		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:35	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0412		mg/kg dry	0.0326	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	08/12/2021 10:43	08/12/2021 13:33	BML

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.544	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	08/11/2021 07:39	08/11/2021 16:19	JAG

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: 414_EP19_17.5

York Sample ID: 21H0486-01

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:10 pm	<u>Date Received</u> 08/10/2021
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	15.8		mg/L	0.0100	1	Calculation	08/12/2021 17:27	08/12/2021 17:34	AA
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.544	1	EPA 9014/9010C	08/11/2021 08:32	08/11/2021 14:33	OT
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	92.0		%	0.100	1	SM 2540G	08/11/2021 13:59	08/11/2021 18:41	VR
Certifications: CTDOH										



Sample Information

Client Sample ID: 414_EP14_14.5

York Sample ID: 21H0486-02

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:20 pm	<u>Date Received</u> 08/10/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/12/2021 06:24	08/12/2021 15:41	KHA
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/12/2021 06:24	08/12/2021 15:41	KHA
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.044	0.088	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
78-93-3	2-Butanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA



Sample Information

Client Sample ID: 414_EP14_14.5

York Sample ID: 21H0486-02

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:20 pm	<u>Date Received</u> 08/10/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
67-64-1	Acetone	ND		mg/kg dry	0.0044	0.0088	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
107-02-8	Acrolein	ND		mg/kg dry	0.0044	0.0088	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
71-43-2	Benzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
75-25-2	Bromoform	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
74-83-9	Bromomethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
75-00-3	Chloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
67-66-3	Chloroform	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
74-87-3	Chloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
110-82-7	Cyclohexane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
74-95-3	Dibromomethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA



Sample Information

Client Sample ID: 414_EP14_14.5

York Sample ID: 21H0486-02

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:20 pm	<u>Date Received</u> 08/10/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
79-20-9	Methyl acetate	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
75-09-2	Methylene chloride	ND		mg/kg dry	0.0044	0.0088	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
95-47-6	o-Xylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0044	0.0088	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
100-42-5	Styrene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
108-88-3	Toluene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 15:41	KHA



Sample Information

Client Sample ID: 414_EP14_14.5

York Sample ID: 21H0486-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21H0486

170488401

Soil

August 10, 2021 2:20 pm

08/10/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for Vinyl Chloride, Xylenes, Total, and Surrogate Recoveries.

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various chlorophenols and dinitrotoluenes.



Sample Information

Client Sample ID: 414_EP14_14.5

York Sample ID: 21H0486-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21H0486

170488401

Soil

August 10, 2021 2:20 pm

08/10/2021

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
62-53-3	Aniline	ND		mg/kg dry	0.182	0.364	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
92-87-5	Benzidine	ND		mg/kg dry	0.182	0.364	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH



Sample Information

Client Sample ID: 414_EP14_14.5

York Sample ID: 21H0486-02

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:20 pm	<u>Date Received</u> 08/10/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH



Sample Information

Client Sample ID: 414_EP14_14.5

York Sample ID: 21H0486-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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21H0486

170488401

Soil

August 10, 2021 2:20 pm

08/10/2021

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
108-95-2	Phenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH
110-86-1	Pyridine	ND		mg/kg dry	0.182	0.364	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 10:40	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	64.9 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	59.7 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	68.3 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	62.5 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	83.2 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	64.2 %	24-116



Sample Information

Client Sample ID: 414_EP14_14.5

York Sample ID: 21H0486-02

York Project (SDG) No.

Client Project ID

Matrix

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21H0486

170488401

Soil

August 10, 2021 2:20 pm

08/10/2021

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.6	1	EPA 8270D SIM Certifications: NELAC-NY10854	08/12/2021 07:45	08/12/2021 15:24	KH
Surrogate Recoveries		Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	66.0 %	39-127.5							

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.269	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:15	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.269	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:15	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.269	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:15	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.269	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:15	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.269	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:15	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.269	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:15	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.269	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:15	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.269	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:15	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.269	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:15	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.269	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:15	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.269	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:15	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.269	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:15	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.269	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:15	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.269	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:15	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.269	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:15	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.269	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:15	WL



Sample Information

Client Sample ID: 414_EP14_14.5

York Sample ID: 21H0486-02

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:20 pm	<u>Date Received</u> 08/10/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.269	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:15	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.269	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:15	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.269	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:15	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.269	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:15	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.269	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:15	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	81.8 %	25-150
Surrogate: M5PFHxA	87.9 %	25-150
Surrogate: M4PFHpA	73.9 %	25-150
Surrogate: M3PFHxS	78.2 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid	88.5 %	25-150
Surrogate: M6PFDA	77.1 %	25-150
Surrogate: M7PFUDA	72.7 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	71.6 %	25-150
Surrogate: M2PFTeDA	59.7 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid	95.5 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfon	72.1 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid	97.5 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfon	72.1 %	10-150
Surrogate: d3-N-MeFOSAA	59.1 %	25-150
Surrogate: d5-N-EtFOSAA	82.2 %	25-150
Surrogate: M2-6:2 FTS	105 %	25-200
Surrogate: M2-8:2 FTS	120 %	25-200
Surrogate: M9PFNA	96.3 %	25-150

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:11	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:11	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:11	CM



Sample Information

Client Sample ID: 414_EP14_14.5

York Sample ID: 21H0486-02

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:20 pm	<u>Date Received</u> 08/10/2021
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:11	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:11	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/11/2021 12:06	08/12/2021 14:11	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:11	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:11	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:11	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:11	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/11/2021 12:06	08/12/2021 14:11	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:11	CM
72-20-8	Endrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:11	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:11	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:11	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:11	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/11/2021 12:06	08/12/2021 14:11	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:11	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:11	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:11	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:11	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0357	5	EPA 8081B Certifications:	08/11/2021 12:06	08/12/2021 14:11	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	45.2 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	71.4 %	30-150							



Sample Information

Client Sample ID: 414_EP14_14.5

York Sample ID: 21H0486-02

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:20 pm	<u>Date Received</u> 08/10/2021
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:23	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:23	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:23	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:23	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:23	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:23	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:23	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications:	08/11/2021 12:06	08/12/2021 14:23	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	81.5 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	40.5 %	30-120							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	9940		mg/kg dry	5.50	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM
7440-36-0	Antimony	ND		mg/kg dry	2.75	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM
7440-39-3	Barium	73.3		mg/kg dry	2.75	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.055	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.330	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM
7440-70-2	Calcium	24300		mg/kg dry	5.50	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM
7440-47-3	Chromium	18.3		mg/kg dry	0.550	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM
7440-48-4	Cobalt	8.04		mg/kg dry	0.440	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM



Sample Information

Client Sample ID: 414_EP14_14.5

York Sample ID: 21H0486-02

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:20 pm	<u>Date Received</u> 08/10/2021
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	19.2		mg/kg dry	2.20	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM
7439-89-6	Iron	14900		mg/kg dry	27.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM
7439-92-1	Lead	6.02		mg/kg dry	0.550	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM
7439-95-4	Magnesium	17200		mg/kg dry	5.50	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM
7439-96-5	Manganese	363		mg/kg dry	0.550	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM
7440-02-0	Nickel	16.1		mg/kg dry	1.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM
7440-09-7	Potassium	1640	B	mg/kg dry	5.50	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM
7782-49-2	Selenium	ND		mg/kg dry	2.75	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM
7440-22-4	Silver	ND		mg/kg dry	0.550	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM
7440-23-5	Sodium	170		mg/kg dry	55.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM
7440-28-0	Thallium	ND		mg/kg dry	2.75	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM
7440-62-2	Vanadium	25.0		mg/kg dry	1.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM
7440-66-6	Zinc	30.1		mg/kg dry	2.75	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:38	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0330	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	08/12/2021 10:43	08/12/2021 13:41	BML

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.550	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	08/11/2021 07:39	08/11/2021 16:19	JAG

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: 414_EP14_14.5

York Sample ID: 21H0486-02

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21H0486	170488401	Soil	August 10, 2021 2:20 pm	08/10/2021

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	18.3		mg/L	0.0100	1	Calculation	08/12/2021 17:27	08/12/2021 17:34	AA
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.550	1	EPA 9014/9010C	08/11/2021 08:32	08/11/2021 14:33	OT
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	91.0		%	0.100	1	SM 2540G	08/11/2021 13:59	08/11/2021 18:41	VR
Certifications: CTDOH										



Sample Information

Client Sample ID: 414_EP09_14.5

York Sample ID: 21H0486-03

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:30 pm	<u>Date Received</u> 08/10/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/12/2021 06:24	08/12/2021 16:07	KHA
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/12/2021 06:24	08/12/2021 16:07	KHA
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.040	0.079	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
78-93-3	2-Butanone	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA



Sample Information

Client Sample ID: 414_EP09_14.5

York Sample ID: 21H0486-03

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:30 pm	<u>Date Received</u> 08/10/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
67-64-1	Acetone	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
107-02-8	Acrolein	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
71-43-2	Benzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
75-25-2	Bromoform	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
74-83-9	Bromomethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
75-00-3	Chloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
67-66-3	Chloroform	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
74-87-3	Chloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
110-82-7	Cyclohexane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
74-95-3	Dibromomethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA



Sample Information

Client Sample ID: 414_EP09_14.5

York Sample ID: 21H0486-03

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:30 pm	<u>Date Received</u> 08/10/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
79-20-9	Methyl acetate	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
75-09-2	Methylene chloride	0.0044	J	mg/kg dry	0.0040	0.0079	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
95-47-6	o-Xylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
100-42-5	Styrene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
108-88-3	Toluene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA



Sample Information

Client Sample ID: 414_EP09_14.5

York Sample ID: 21H0486-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21H0486

170488401

Soil

August 10, 2021 2:30 pm

08/10/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/12/2021 06:24	08/12/2021 16:07	KHA
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0060	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/12/2021 06:24	08/12/2021 16:07	KHA
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	113 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	103 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	101 %			76-130						

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0857	0.171	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0857	0.171	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0857	0.171	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH



Sample Information

Client Sample ID: 414_EP09_14.5

York Sample ID: 21H0486-03

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:30 pm	<u>Date Received</u> 08/10/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0857	0.171	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0857	0.171	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0857	0.171	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0857	0.171	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0857	0.171	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
62-53-3	Aniline	ND		mg/kg dry	0.172	0.343	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
92-87-5	Benzidine	ND		mg/kg dry	0.172	0.343	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH



Sample Information

Client Sample ID: 414_EP09_14.5

York Sample ID: 21H0486-03

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:30 pm	<u>Date Received</u> 08/10/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0857	0.171	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0857	0.171	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH



Sample Information

Client Sample ID: 414_EP09_14.5

York Sample ID: 21H0486-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21H0486

170488401

Soil

August 10, 2021 2:30 pm

08/10/2021

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
108-95-2	Phenol	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0430	0.0857	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH
110-86-1	Pyridine	ND		mg/kg dry	0.172	0.343	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:29	08/12/2021 11:10	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	49.4 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	44.1 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	51.4 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	48.2 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	57.6 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	49.4 %	24-116



Sample Information

Client Sample ID: 414_EP09_14.5

York Sample ID: 21H0486-03

York Project (SDG) No.

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21H0486

170488401

Soil

August 10, 2021 2:30 pm

08/10/2021

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.6	1	EPA 8270D SIM Certifications: NELAC-NY10854	08/12/2021 07:45	08/12/2021 15:41	KH
Surrogate Recoveries		Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	62.0 %	39-127.5							

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:37	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:37	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:37	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:37	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:37	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:37	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:37	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:37	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:37	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:37	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:37	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:37	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:37	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:37	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:37	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:37	WL



Sample Information

Client Sample ID: 414_EP09_14.5

York Sample ID: 21H0486-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21H0486

170488401

Soil

August 10, 2021 2:30 pm

08/10/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:37	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:37	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:37	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:37	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/11/2021 10:06	08/12/2021 17:37	WL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	82.7 %	25-150
Surrogate: M5PFHxA	86.7 %	25-150
Surrogate: M4PFHpA	71.7 %	25-150
Surrogate: M3PFHxS	79.2 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid	82.8 %	25-150
Surrogate: M6PFDA	76.5 %	25-150
Surrogate: M7PFUDA	70.7 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	81.8 %	25-150
Surrogate: M2PFTeDA	63.7 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid	96.8 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfon	71.8 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid	101 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfon	70.6 %	10-150
Surrogate: d3-N-MeFOSAA	60.2 %	25-150
Surrogate: d5-N-EtFOSAA	75.5 %	25-150
Surrogate: M2-6:2 FTS	87.9 %	25-200
Surrogate: M2-8:2 FTS	109 %	25-200
Surrogate: M9PFNA	93.8 %	25-150

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:28	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:28	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:28	CM



Sample Information

Client Sample ID: 414_EP09_14.5

York Sample ID: 21H0486-03

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:30 pm	<u>Date Received</u> 08/10/2021
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:28	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:28	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/11/2021 12:06	08/12/2021 14:28	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:28	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:28	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:28	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:28	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/11/2021 12:06	08/12/2021 14:28	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:28	CM
72-20-8	Endrin	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:28	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:28	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:28	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:28	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/11/2021 12:06	08/12/2021 14:28	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:28	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:28	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:28	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:28	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0341	5	EPA 8081B Certifications:	08/11/2021 12:06	08/12/2021 14:28	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	75.3 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	87.7 %	30-150							



Sample Information

Client Sample ID: 414_EP09_14.5

York Sample ID: 21H0486-03

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:30 pm	<u>Date Received</u> 08/10/2021
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:36	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:36	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:36	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:36	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:36	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:36	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/11/2021 12:06	08/12/2021 14:36	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications:	08/11/2021 12:06	08/12/2021 14:36	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	95.0 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	64.5 %	30-120							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	6000		mg/kg dry	5.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM
7440-36-0	Antimony	ND		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM
7440-39-3	Barium	36.5		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.053	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.316	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM
7440-70-2	Calcium	67200		mg/kg dry	5.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM
7440-47-3	Chromium	12.2		mg/kg dry	0.526	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM
7440-48-4	Cobalt	6.59		mg/kg dry	0.421	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM



Sample Information

Client Sample ID: 414_EP09_14.5

York Sample ID: 21H0486-03

<u>York Project (SDG) No.</u> 21H0486	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2021 2:30 pm	<u>Date Received</u> 08/10/2021
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	15.9		mg/kg dry	2.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM
7439-89-6	Iron	9550		mg/kg dry	26.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM
7439-92-1	Lead	2.68		mg/kg dry	0.526	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM
7439-95-4	Magnesium	39100		mg/kg dry	5.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM
7439-96-5	Manganese	280		mg/kg dry	0.526	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM
7440-02-0	Nickel	13.0		mg/kg dry	1.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM
7440-09-7	Potassium	1110	B	mg/kg dry	5.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM
7782-49-2	Selenium	11.0		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM
7440-22-4	Silver	ND		mg/kg dry	0.526	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM
7440-23-5	Sodium	162		mg/kg dry	52.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM
7440-28-0	Thallium	ND		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM
7440-62-2	Vanadium	17.6		mg/kg dry	1.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM
7440-66-6	Zinc	21.2		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/10/2021 22:02	08/12/2021 16:41	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0316	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	08/12/2021 10:43	08/12/2021 13:50	BML

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.526	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	08/11/2021 07:39	08/11/2021 16:19	JAG

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: 414_EP09_14.5

York Sample ID: 21H0486-03

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21H0486	170488401	Soil	August 10, 2021 2:30 pm	08/10/2021

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	12.2		mg/L	0.0100	1	Calculation	08/12/2021 17:27	08/12/2021 17:34	AA
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.526	1	EPA 9014/9010C	08/12/2021 08:33	08/12/2021 14:10	OT
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	95.1		%	0.100	1	SM 2540G	08/11/2021 13:59	08/11/2021 18:41	VR
Certifications: CTDOH										



Analytical Batch Summary

Batch ID: BH10539 **Preparation Method:** EPA 3050B **Prepared By:** BR

YORK Sample ID	Client Sample ID	Preparation Date
21H0486-01	414_EP19_17.5	08/10/21
21H0486-02	414_EP14_14.5	08/10/21
21H0486-03	414_EP09_14.5	08/10/21
BH10539-BLK1	Blank	08/10/21
BH10539-DUP1	Duplicate	08/10/21
BH10539-MS1	Matrix Spike	08/10/21
BH10539-PS1	Post Spike	08/10/21
BH10539-SRM1	Reference	08/10/21

Batch ID: BH10549 **Preparation Method:** EPA SW846-3060 **Prepared By:** JAG

YORK Sample ID	Client Sample ID	Preparation Date
21H0486-01	414_EP19_17.5	08/11/21
21H0486-02	414_EP14_14.5	08/11/21
21H0486-03	414_EP09_14.5	08/11/21
BH10549-BLK1	Blank	08/11/21
BH10549-DUP1	Duplicate	08/11/21
BH10549-MS1	Matrix Spike	08/11/21
BH10549-MS2	Matrix Spike	08/11/21
BH10549-SRM1	Reference	08/11/21

Batch ID: BH10553 **Preparation Method:** Analysis Preparation Soil **Prepared By:** OT

YORK Sample ID	Client Sample ID	Preparation Date
21H0486-01	414_EP19_17.5	08/11/21
21H0486-02	414_EP14_14.5	08/11/21
BH10553-BLK1	Blank	08/11/21
BH10553-DUP1	Duplicate	08/11/21
BH10553-MS1	Matrix Spike	08/11/21
BH10553-SRM1	Reference	08/11/21

Batch ID: BH10573 **Preparation Method:** SPE PFAS Extraction-Soil-EPA 537m **Prepared By:** SG

YORK Sample ID	Client Sample ID	Preparation Date
21H0486-01	414_EP19_17.5	08/11/21
21H0486-02	414_EP14_14.5	08/11/21
21H0486-03	414_EP09_14.5	08/11/21
BH10573-BLK1	Blank	08/11/21
BH10573-BS1	LCS	08/11/21
BH10573-MS1	Matrix Spike	08/11/21
BH10573-MSD1	Matrix Spike Dup	08/11/21



Batch ID: BH10581

Preparation Method: EPA 3550C

Prepared By: EMS

YORK Sample ID	Client Sample ID	Preparation Date
21H0486-01	414_EP19_17.5	08/11/21
21H0486-01	414_EP19_17.5	08/11/21
21H0486-02	414_EP14_14.5	08/11/21
21H0486-02	414_EP14_14.5	08/11/21
21H0486-03	414_EP09_14.5	08/11/21
21H0486-03	414_EP09_14.5	08/11/21
BH10581-BLK1	Blank	08/11/21
BH10581-BLK2	Blank	08/11/21
BH10581-BS1	LCS	08/11/21
BH10581-BS2	LCS	08/11/21

Batch ID: BH10583

Preparation Method: EPA 3546 SVOA

Prepared By: EMS

YORK Sample ID	Client Sample ID	Preparation Date
21H0486-01	414_EP19_17.5	08/11/21
21H0486-02	414_EP14_14.5	08/11/21
21H0486-03	414_EP09_14.5	08/11/21
BH10583-BLK1	Blank	08/11/21
BH10583-BS1	LCS	08/11/21

Batch ID: BH10597

Preparation Method: % Solids Prep

Prepared By: VR

YORK Sample ID	Client Sample ID	Preparation Date
21H0486-01	414_EP19_17.5	08/11/21
21H0486-02	414_EP14_14.5	08/11/21
21H0486-03	414_EP09_14.5	08/11/21
BH10597-DUP1	Duplicate	08/11/21

Batch ID: BH10638

Preparation Method: EPA 3550C

Prepared By: RTH

YORK Sample ID	Client Sample ID	Preparation Date
21H0486-01	414_EP19_17.5	08/12/21
21H0486-02	414_EP14_14.5	08/12/21
21H0486-03	414_EP09_14.5	08/12/21
BH10638-BLK1	Blank	08/12/21
BH10638-BS1	LCS	08/12/21
BH10638-MS1	Matrix Spike	08/12/21
BH10638-MSD1	Matrix Spike Dup	08/12/21

Batch ID: BH10645

Preparation Method: Analysis Preparation Soil

Prepared By: OT

YORK Sample ID	Client Sample ID	Preparation Date
21H0486-03	414_EP09_14.5	08/12/21
BH10645-BLK1	Blank	08/12/21
BH10645-DUP1	Duplicate	08/12/21
BH10645-MS1	Matrix Spike	08/12/21



BH10645-SRM1

Reference

08/12/21

Batch ID: BH10654

Preparation Method: EPA 7473 soil

Prepared By: BML

YORK Sample ID	Client Sample ID	Preparation Date
21H0486-01	414_EP19_17.5	08/12/21
21H0486-02	414_EP14_14.5	08/12/21
21H0486-03	414_EP09_14.5	08/12/21
BH10654-BLK1	Blank	08/12/21
BH10654-DUP1	Duplicate	08/12/21
BH10654-MS1	Matrix Spike	08/12/21
BH10654-SRM1	Reference	08/12/21

Batch ID: BH10701

Preparation Method: EPA 5035A

Prepared By: TMP

YORK Sample ID	Client Sample ID	Preparation Date
21H0486-01	414_EP19_17.5	08/12/21
21H0486-02	414_EP14_14.5	08/12/21
21H0486-03	414_EP09_14.5	08/12/21
BH10701-BLK1	Blank	08/12/21
BH10701-BLK5	Blank	08/12/21
BH10701-BS1	LCS	08/12/21
BH10701-BSD1	LCS Dup	08/12/21

Batch ID: BH10702

Preparation Method: Analysis Preparation

Prepared By: AA

YORK Sample ID	Client Sample ID	Preparation Date
21H0486-01	414_EP19_17.5	08/12/21
21H0486-02	414_EP14_14.5	08/12/21
21H0486-03	414_EP09_14.5	08/12/21



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10701 - EPA 5035A

Blank (BH10701-BLK1)	Blank	Prepared & Analyzed: 08/12/2021									
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								Level	

Batch BH10701 - EPA 5035A

Blank (BH10701-BLK1)	Blank	Prepared & Analyzed: 08/12/2021									
n-Butylbenzene	ND	0.0050	mg/kg wet								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
<hr/>											
Surrogate: SURRE: 1,2-Dichloroethane-d4	53.0		ug/L	50.0		106	77-125				
Surrogate: SURRE: Toluene-d8	52.5		"	50.0		105	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	52.0		"	50.0		104	76-130				

Blank (BH10701-BLK5)	holding blank-21H0486	Prepared & Analyzed: 08/12/2021									
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								Level	

Batch BH10701 - EPA 5035A

Blank (BH10701-BLK5) holding blank-21H0486 Prepared & Analyzed: 08/12/2021

Bromoform	ND	0.0050	mg/kg wet								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								

Surrogate: SURRE: 1,2-Dichloroethane-d4	54.3		ug/L	50.0		109	77-125
Surrogate: SURRE: Toluene-d8	51.4		"	50.0		103	85-120
Surrogate: SURRE: p-Bromofluorobenzene	51.2		"	50.0		102	76-130



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD		
		Limit	Units						RPD	Limit	Flag
Batch BH10701 - EPA 5035A											
LCS (BH10701-BS1)	LCS										Prepared & Analyzed: 08/12/2021
1,1,1,2-Tetrachloroethane	60.9		ug/L	50.0		122	75-129				
1,1,1-Trichloroethane	58.3		"	50.0		117	71-137				
1,1,2,2-Tetrachloroethane	55.6		"	50.0		111	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	57.9		"	50.0		116	58-146				
1,1,2-Trichloroethane	52.6		"	50.0		105	83-123				
1,1-Dichloroethane	50.4		"	50.0		101	75-130				
1,1-Dichloroethylene	61.2		"	50.0		122	64-137				
1,2,3-Trichlorobenzene	54.0		"	50.0		108	81-140				
1,2,3-Trichloropropane	58.4		"	50.0		117	81-126				
1,2,4-Trichlorobenzene	55.5		"	50.0		111	80-141				
1,2,4-Trimethylbenzene	55.7		"	50.0		111	84-125				
1,2-Dibromo-3-chloropropane	60.4		"	50.0		121	74-142				
1,2-Dibromoethane	54.0		"	50.0		108	86-123				
1,2-Dichlorobenzene	54.3		"	50.0		109	85-122				
1,2-Dichloroethane	55.4		"	50.0		111	71-133				
1,2-Dichloropropane	51.8		"	50.0		104	81-122				
1,3,5-Trimethylbenzene	56.3		"	50.0		113	82-126				
1,3-Dichlorobenzene	54.0		"	50.0		108	84-124				
1,4-Dichlorobenzene	52.3		"	50.0		105	84-124				
1,4-Dioxane	1110		"	1050		105	10-228				
2-Butanone	48.5		"	50.0		97.0	58-147				
2-Hexanone	51.5		"	50.0		103	70-139				
4-Methyl-2-pentanone	51.4		"	50.0		103	72-132				
Acetone	51.0		"	50.0		102	36-155				
Acrolein	30.7		"	50.0		61.5	10-238				
Acrylonitrile	49.5		"	50.0		98.9	66-141				
Benzene	50.5		"	50.0		101	77-127				
Bromochloromethane	50.2		"	50.0		100	74-129				
Bromodichloromethane	60.3		"	50.0		121	81-124				
Bromoform	55.4		"	50.0		111	80-136				
Bromomethane	98.6		"	50.0		197	32-177	High Bias			
Carbon disulfide	64.3		"	50.0		129	10-136				
Carbon tetrachloride	57.4		"	50.0		115	66-143				
Chlorobenzene	53.9		"	50.0		108	86-120				
Chloroethane	76.8		"	50.0		154	51-142	High Bias			
Chloroform	54.7		"	50.0		109	76-131				
Chloromethane	49.2		"	50.0		98.5	49-132				
cis-1,2-Dichloroethylene	53.9		"	50.0		108	74-132				
cis-1,3-Dichloropropylene	57.4		"	50.0		115	81-129				
Cyclohexane	46.1		"	50.0		92.1	70-130				
Dibromochloromethane	56.0		"	50.0		112	10-200				
Dibromomethane	53.9		"	50.0		108	83-124				
Dichlorodifluoromethane	47.1		"	50.0		94.3	28-158				
Ethyl Benzene	54.3		"	50.0		109	84-125				
Hexachlorobutadiene	57.8		"	50.0		116	83-133				
Isopropylbenzene	55.8		"	50.0		112	81-127				
Methyl acetate	43.2		"	50.0		86.3	41-143				
Methyl tert-butyl ether (MTBE)	53.5		"	50.0		107	74-131				
Methylcyclohexane	50.5		"	50.0		101	70-130				
Methylene chloride	51.9		"	50.0		104	57-141				
n-Butylbenzene	55.5		"	50.0		111	80-130				



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD		
		Limit	Units						RPD	Limit	Flag
Batch BH10701 - EPA 5035A											
LCS (BH10701-BS1)	LCS										Prepared & Analyzed: 08/12/2021
n-Propylbenzene	54.6		ug/L	50.0		109	74-136				
o-Xylene	53.1		"	50.0		106	83-123				
p- & m- Xylenes	109		"	100		109	82-128				
p-Isopropyltoluene	57.4		"	50.0		115	85-125				
sec-Butylbenzene	58.4		"	50.0		117	83-125				
Styrene	53.8		"	50.0		108	86-126				
tert-Butyl alcohol (TBA)	326		"	250		130	70-130				
tert-Butylbenzene	56.1		"	50.0		112	80-127				
Tetrachloroethylene	49.8		"	50.0		99.6	80-129				
Toluene	53.3		"	50.0		107	85-121				
trans-1,2-Dichloroethylene	56.3		"	50.0		113	72-132				
trans-1,3-Dichloropropylene	53.3		"	50.0		107	78-132				
Trichloroethylene	55.8		"	50.0		112	84-123				
Trichlorofluoromethane	60.7		"	50.0		121	62-140				
Vinyl Chloride	52.8		"	50.0		106	52-130				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>53.6</i>		<i>"</i>	<i>50.0</i>		<i>107</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>51.9</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>50.5</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>76-130</i>				
LCS Dup (BH10701-BSD1)	LCS Dup										Prepared & Analyzed: 08/12/2021
1,1,1,2-Tetrachloroethane	60.1		ug/L	50.0		120	75-129		1.32	30	
1,1,1-Trichloroethane	59.0		"	50.0		118	71-137		1.07	30	
1,1,2,2-Tetrachloroethane	57.4		"	50.0		115	79-129		3.22	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	58.2		"	50.0		116	58-146		0.585	30	
1,1,2-Trichloroethane	54.1		"	50.0		108	83-123		2.87	30	
1,1-Dichloroethane	49.6		"	50.0		99.3	75-130		1.52	30	
1,1-Dichloroethylene	59.8		"	50.0		120	64-137		2.21	30	
1,2,3-Trichlorobenzene	55.3		"	50.0		111	81-140		2.43	30	
1,2,3-Trichloropropane	59.7		"	50.0		119	81-126		2.13	30	
1,2,4-Trichlorobenzene	56.7		"	50.0		113	80-141		2.03	30	
1,2,4-Trimethylbenzene	56.1		"	50.0		112	84-125		0.698	30	
1,2-Dibromo-3-chloropropane	66.9		"	50.0		134	74-142		10.3	30	
1,2-Dibromoethane	55.7		"	50.0		111	86-123		2.97	30	
1,2-Dichlorobenzene	54.2		"	50.0		108	85-122		0.277	30	
1,2-Dichloroethane	55.4		"	50.0		111	71-133		0.0361	30	
1,2-Dichloropropane	52.0		"	50.0		104	81-122		0.520	30	
1,3,5-Trimethylbenzene	57.6		"	50.0		115	82-126		2.23	30	
1,3-Dichlorobenzene	54.1		"	50.0		108	84-124		0.333	30	
1,4-Dichlorobenzene	53.6		"	50.0		107	84-124		2.42	30	
1,4-Dioxane	1170		"	1050		112	10-228		5.70	30	
2-Butanone	51.3		"	50.0		103	58-147		5.61	30	
2-Hexanone	55.5		"	50.0		111	70-139		7.55	30	
4-Methyl-2-pentanone	55.6		"	50.0		111	72-132		7.85	30	
Acetone	52.6		"	50.0		105	36-155		3.22	30	
Acrolein	31.5		"	50.0		63.0	10-238		2.38	30	
Acrylonitrile	52.2		"	50.0		104	66-141		5.39	30	
Benzene	50.6		"	50.0		101	77-127		0.178	30	
Bromochloromethane	50.4		"	50.0		101	74-129		0.537	30	
Bromodichloromethane	60.3		"	50.0		121	81-124		0.0498	30	
Bromoform	55.0		"	50.0		110	80-136		0.670	30	
Bromomethane	90.8		"	50.0		182	32-177	High Bias	8.24	30	



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	
		Limit			Result				RPD	Limit
Batch BH10701 - EPA 5035A										
LCS Dup (BH10701-BSD1)	LCS Dup	Prepared & Analyzed: 08/12/2021								
Carbon disulfide	63.9		ug/L	50.0		128	10-136		0.640	30
Carbon tetrachloride	56.8		"	50.0		114	66-143		0.999	30
Chlorobenzene	53.8		"	50.0		108	86-120		0.130	30
Chloroethane	74.9		"	50.0		150	51-142	High Bias	2.48	30
Chloroform	55.3		"	50.0		111	76-131		1.13	30
Chloromethane	48.7		"	50.0		97.3	49-132		1.18	30
cis-1,2-Dichloroethylene	53.3		"	50.0		107	74-132		1.18	30
cis-1,3-Dichloropropylene	57.5		"	50.0		115	81-129		0.0348	30
Cyclohexane	46.0		"	50.0		91.9	70-130		0.196	30
Dibromochloromethane	56.6		"	50.0		113	10-200		1.01	30
Dibromomethane	54.7		"	50.0		109	83-124		1.33	30
Dichlorodifluoromethane	47.6		"	50.0		95.2	28-158		0.950	30
Ethyl Benzene	53.7		"	50.0		107	84-125		1.07	30
Hexachlorobutadiene	58.6		"	50.0		117	83-133		1.36	30
Isopropylbenzene	56.4		"	50.0		113	81-127		1.05	30
Methyl acetate	45.5		"	50.0		91.0	41-143		5.26	30
Methyl tert-butyl ether (MTBE)	54.8		"	50.0		110	74-131		2.49	30
Methylcyclohexane	51.0		"	50.0		102	70-130		0.828	30
Methylene chloride	51.7		"	50.0		103	57-141		0.502	30
n-Butylbenzene	56.9		"	50.0		114	80-130		2.53	30
n-Propylbenzene	55.1		"	50.0		110	74-136		0.967	30
o-Xylene	53.2		"	50.0		106	83-123		0.0565	30
p- & m- Xylenes	109		"	100		109	82-128		0.0460	30
p-Isopropyltoluene	57.3		"	50.0		115	85-125		0.174	30
sec-Butylbenzene	58.8		"	50.0		118	83-125		0.580	30
Styrene	53.6		"	50.0		107	86-126		0.428	30
tert-Butyl alcohol (TBA)	355		"	250		142	70-130	High Bias	8.61	30
tert-Butylbenzene	56.7		"	50.0		113	80-127		1.08	30
Tetrachloroethylene	50.2		"	50.0		100	80-129		0.680	30
Toluene	53.5		"	50.0		107	85-121		0.281	30
trans-1,2-Dichloroethylene	54.8		"	50.0		110	72-132		2.65	30
trans-1,3-Dichloropropylene	52.8		"	50.0		106	78-132		0.961	30
Trichloroethylene	56.4		"	50.0		113	84-123		0.999	30
Trichlorofluoromethane	59.3		"	50.0		119	62-140		2.43	30
Vinyl Chloride	52.3		"	50.0		105	52-130		1.05	30
Surrogate: SURR: 1,2-Dichloroethane-d4	54.6		"	50.0		109	77-125			
Surrogate: SURR: Toluene-d8	52.6		"	50.0		105	85-120			
Surrogate: SURR: p-Bromofluorobenzene	50.8		"	50.0		102	76-130			



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10583 - EPA 3546 SVOA

Blank (BH10583-BLK1) Blank Prepared: 08/11/2021 Analyzed: 08/12/2021

1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								
Caprolactam	ND	0.0830	"								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								



Semivolatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Level					Result	

Batch BH10583 - EPA 3546 SVOA

Blank (BH10583-BLK1)	Blank	Prepared: 08/11/2021 Analyzed: 08/12/2021									
Dibenzofuran	ND	0.0416	mg/kg wet								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Pyridine	ND	0.166	"								
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Surrogate: SURR: 2-Fluorophenol	1.00		"	1.66		60.3		20-108			
Surrogate: SURR: Phenol-d5	0.897		"	1.66		54.0		23-114			
Surrogate: SURR: Nitrobenzene-d5	0.517		"	0.831		62.2		22-108			
Surrogate: SURR: 2-Fluorobiphenyl	0.488		"	0.831		58.8		21-113			
Surrogate: SURR: 2,4,6-Tribromophenol	1.08		"	1.66		65.1		19-110			
Surrogate: SURR: Terphenyl-d14	0.553		"	0.831		66.6		24-116			



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10583 - EPA 3546 SVOA											
LCS (BH10583-BS1)	LCS	Prepared: 08/11/2021 Analyzed: 08/12/2021									
1,1-Biphenyl	0.482	0.0416	mg/kg wet	0.831		58.0	18-111				
1,2,4,5-Tetrachlorobenzene	0.577	0.0830	"	0.831		69.5	21-131				
1,2-Diphenylhydrazine (as Azobenzene)	0.425	0.0416	"	0.831		51.2	17-137				
2,3,4,6-Tetrachlorophenol	0.539	0.0830	"	0.831		64.9	30-130				
2,4,5-Trichlorophenol	0.473	0.0416	"	0.831		57.0	27-118				
2,4,6-Trichlorophenol	0.530	0.0416	"	0.831		63.8	31-120				
2,4-Dichlorophenol	0.530	0.0416	"	0.831		63.8	20-127				
2,4-Dimethylphenol	0.524	0.0416	"	0.831		63.1	14-132				
2,4-Dinitrophenol	0.206	0.0830	"	0.831		24.8	10-171				
2,4-Dinitrotoluene	0.572	0.0416	"	0.831		68.9	34-131				
2,6-Dinitrotoluene	0.603	0.0416	"	0.831		72.6	31-128				
2-Chloronaphthalene	0.465	0.0416	"	0.831		56.0	31-117				
2-Chlorophenol	0.464	0.0416	"	0.831		55.8	33-113				
2-Methylnaphthalene	0.459	0.0416	"	0.831		55.3	12-138				
2-Methylphenol	0.469	0.0416	"	0.831		56.4	10-136				
2-Nitroaniline	0.550	0.0830	"	0.831		66.2	27-132				
2-Nitrophenol	0.611	0.0416	"	0.831		73.6	17-129				
3- & 4-Methylphenols	0.412	0.0416	"	0.831		49.6	29-103				
3,3-Dichlorobenzidine	0.893	0.0416	"	0.831		107	22-149				
3-Nitroaniline	0.487	0.0830	"	0.831		58.7	20-133				
4,6-Dinitro-2-methylphenol	0.529	0.0830	"	0.831		63.7	10-143				
4-Bromophenyl phenyl ether	0.511	0.0416	"	0.831		61.6	29-120				
4-Chloro-3-methylphenol	0.499	0.0416	"	0.831		60.0	24-129				
4-Chloroaniline	0.408	0.0416	"	0.831		49.1	10-132				
4-Chlorophenyl phenyl ether	0.475	0.0416	"	0.831		57.2	27-124				
4-Nitroaniline	0.487	0.0830	"	0.831		58.7	16-128				
4-Nitrophenol	0.506	0.0830	"	0.831		60.9	10-141				
Acenaphthene	0.471	0.0416	"	0.831		56.8	30-121				
Acenaphthylene	0.469	0.0416	"	0.831		56.4	30-115				
Acetophenone	0.463	0.0416	"	0.831		55.7	20-112				
Aniline	0.405	0.166	"	0.831		48.7	10-119				
Anthracene	0.504	0.0416	"	0.831		60.6	34-118				
Atrazine	0.543	0.0416	"	0.831		65.4	26-112				
Benzaldehyde	0.492	0.0416	"	0.831		59.2	21-100				
Benzo(a)anthracene	0.477	0.0416	"	0.831		57.4	32-122				
Benzo(a)pyrene	0.530	0.0416	"	0.831		63.8	29-133				
Benzo(b)fluoranthene	0.501	0.0416	"	0.831		60.3	25-133				
Benzo(g,h,i)perylene	0.524	0.0416	"	0.831		63.1	10-143				
Benzo(k)fluoranthene	0.494	0.0416	"	0.831		59.5	25-128				
Benzoic acid	0.0571	0.0416	"	0.831		6.88	10-140	Low Bias			
Benzyl alcohol	0.497	0.0416	"	0.831		59.8	30-115				
Benzyl butyl phthalate	0.484	0.0416	"	0.831		58.3	26-126				
Bis(2-chloroethoxy)methane	0.448	0.0416	"	0.831		53.9	19-132				
Bis(2-chloroethyl)ether	0.431	0.0416	"	0.831		51.8	19-125				
Bis(2-chloroisopropyl)ether	0.401	0.0416	"	0.831		48.3	20-135				
Bis(2-ethylhexyl)phthalate	0.499	0.0416	"	0.831		60.0	10-155				
Caprolactam	0.571	0.0830	"	0.831		68.8	10-127				
Carbazole	0.465	0.0416	"	0.831		56.0	35-123				
Chrysene	0.477	0.0416	"	0.831		57.4	32-123				
Dibenzo(a,h)anthracene	0.556	0.0416	"	0.831		66.9	10-136				
Dibenzofuran	0.468	0.0416	"	0.831		56.4	29-121				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10583 - EPA 3546 SVOA

LCS (BH10583-BS1)	LCS	Prepared: 08/11/2021 Analyzed: 08/12/2021									
Diethyl phthalate	0.453	0.0416	mg/kg wet	0.831		54.6	34-116				
Dimethyl phthalate	0.460	0.0416	"	0.831		55.4	35-124				
Di-n-butyl phthalate	0.470	0.0416	"	0.831		56.6	31-116				
Di-n-octyl phthalate	0.511	0.0416	"	0.831		61.6	26-136				
Diphenylamine	0.550	0.0830	"	0.831		66.2	40-140				
Fluoranthene	0.476	0.0416	"	0.831		57.3	33-122				
Fluorene	0.465	0.0416	"	0.831		56.0	29-123				
Hexachlorobenzene	0.438	0.0416	"	0.831		52.7	21-124				
Hexachlorobutadiene	0.515	0.0416	"	0.831		62.0	10-149				
Hexachlorocyclopentadiene	0.472	0.0416	"	0.831		56.8	10-129				
Hexachloroethane	0.432	0.0416	"	0.831		52.0	28-108				
Indeno(1,2,3-cd)pyrene	0.650	0.0416	"	0.831		78.3	10-135				
Isophorone	0.447	0.0416	"	0.831		53.8	20-132				
Naphthalene	0.477	0.0416	"	0.831		57.5	23-124				
Nitrobenzene	0.484	0.0416	"	0.831		58.3	13-132				
N-Nitrosodimethylamine	0.428	0.0416	"	0.831		51.5	11-129				
N-nitroso-di-n-propylamine	0.392	0.0416	"	0.831		47.2	24-119				
N-Nitrosodiphenylamine	0.539	0.0416	"	0.831		64.8	22-152				
Pentachlorophenol	0.479	0.0416	"	0.831		57.7	10-139				
Phenanthrene	0.463	0.0416	"	0.831		55.7	33-123				
Phenol	0.507	0.0416	"	0.831		61.0	23-115				
Pyrene	0.474	0.0416	"	0.831		57.1	24-130				
Pyridine	0.387	0.166	"	0.831		46.6	10-91				
Surrogate: SURR: 2-Fluorophenol	0.928		"	1.66		55.9	20-108				
Surrogate: SURR: Phenol-d5	0.859		"	1.66		51.7	23-114				
Surrogate: SURR: Nitrobenzene-d5	0.474		"	0.831		57.1	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	0.452		"	0.831		54.5	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1.20		"	1.66		72.1	19-110				
Surrogate: SURR: Terphenyl-d14	0.489		"	0.831		58.8	24-116				



Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BH10638 - EPA 3550C												
Blank (BH10638-BLK1)	Blank								Prepared & Analyzed: 08/12/2021			
1,4-Dioxane	ND	19.8	ug/kg									
<i>Surrogate: 1,4-Dioxane-d8</i>	307		"	495		62.0	39-127.5					
LCS (BH10638-BS1)	LCS								Prepared & Analyzed: 08/12/2021			
1,4-Dioxane	481	19.8	ug/kg	495		97.2	40-130					
<i>Surrogate: 1,4-Dioxane-d8</i>	366		"	495		74.0	39-127.5					
Matrix Spike (BH10638-MS1)	Matrix Spike	*Source sample: 21H0486-03 (414_EP09_14.5)								Prepared & Analyzed: 08/12/2021		
1,4-Dioxane	480	19.8	ug/kg	495	ND	97.0	40-130					
<i>Surrogate: 1,4-Dioxane-d8</i>	327		"	495		66.0	40-130					
Matrix Spike Dup (BH10638-1)	Matrix Spike Dup	*Source sample: 21H0486-03 (414_EP09_14.5)								Prepared & Analyzed: 08/12/2021		
1,4-Dioxane	479	19.8	ug/kg	495	ND	96.8	40-130		0.206	30		
<i>Surrogate: 1,4-Dioxane-d8</i>	317		"	495		64.0	40-130					



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10573 - SPE PFAS Extraction-Soil-EPA 537m

Blank (BH10573-BLK1)	Blank	Prepared: 08/11/2021 Analyzed: 08/12/2021									
Perfluorobutanesulfonic acid (PFBS)	ND	0.233	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.233	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.233	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.233	"								
Perfluorooctanoic acid (PFOA)	ND	0.233	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.233	"								
Perfluorononanoic acid (PFNA)	ND	0.233	"								
Perfluorodecanoic acid (PFDA)	ND	0.233	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.233	"								
Perfluorododecanoic acid (PFDoA)	ND	0.233	"								
Perfluorotridecanoic acid (PFTriDA)	ND	0.233	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.233	"								
N-MeFOSAA	ND	0.233	"								
N-EtFOSAA	ND	0.233	"								
Perfluoropentanoic acid (PFPeA)	ND	0.233	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.233	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.233	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.233	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	ND	0.233	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	ND	0.233	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.233	"								
Surrogate: M3PFBS	3.90		"	4.33		90.2	25-150				
Surrogate: M5PFHxA	4.48		"	4.66		96.3	25-150				
Surrogate: M4PFHpA	3.63		"	4.66		78.0	25-150				
Surrogate: M3PFHxS	3.75		"	4.41		85.2	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.34		"	4.66		93.2	25-150				
Surrogate: M6PFDA	3.41		"	4.66		73.1	25-150				
Surrogate: M7PFUdA	3.24		"	4.66		69.5	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	3.47		"	4.66		74.6	25-150				
Surrogate: M2PFTeDA	2.98		"	4.66		64.1	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	4.83		"	4.66		104	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.31		"	4.46		74.2	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.95		"	4.66		106	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.52		"	4.66		75.7	10-150				
Surrogate: d3-N-MeFOSAA	2.63		"	4.66		56.4	25-150				
Surrogate: d5-N-EtFOSAA	3.70		"	4.66		79.5	25-150				
Surrogate: M2-6:2 FTS	4.59		"	4.42		104	25-200				
Surrogate: M2-8:2 FTS	4.76		"	4.46		107	25-200				
Surrogate: M9PFNA	4.61		"	4.66		99.0	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	Limits	Flag	RPD	Limit	Flag
		Limit		Level	Result	%REC			RPD		
Batch BH10573 - SPE PFAS Extraction-Soil-EPA 537m											
LCS (BH10573-BS1)	LCS	Prepared: 08/11/2021 Analyzed: 08/12/2021									
Perfluorobutanesulfonic acid (PFBS)	4.52	0.245	ug/kg wet	4.34		104	50-130				
Perfluorohexanoic acid (PFHxA)	4.73	0.245	"	4.91		96.4	50-130				
Perfluoroheptanoic acid (PFHpA)	5.17	0.245	"	4.91		105	50-130				
Perfluorohexanesulfonic acid (PFHxS)	4.18	0.245	"	4.48		93.3	50-130				
Perfluorooctanoic acid (PFOA)	4.77	0.245	"	4.91		97.2	50-130				
Perfluorooctanesulfonic acid (PFOS)	4.14	0.245	"	4.54		91.0	50-130				
Perfluorononanoic acid (PFNA)	4.04	0.245	"	4.91		82.3	50-130				
Perfluorodecanoic acid (PFDA)	4.83	0.245	"	4.91		98.5	50-130				
Perfluoroundecanoic acid (PFUnA)	4.86	0.245	"	4.91		99.1	50-130				
Perfluorododecanoic acid (PFDoA)	4.62	0.245	"	4.91		94.1	50-130				
Perfluorotridecanoic acid (PFTriDA)	4.70	0.245	"	4.91		95.8	50-130				
Perfluorotetradecanoic acid (PFTA)	5.08	0.245	"	4.91		104	50-130				
N-MeFOSAA	5.14	0.245	"	4.91		105	50-130				
N-EtFOSAA	3.96	0.245	"	4.91		80.8	50-130				
Perfluoropentanoic acid (PFPeA)	4.61	0.245	"	4.91		94.0	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	4.85	0.245	"	4.91		98.9	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.94	0.245	"	4.66		106	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	3.73	0.245	"	4.74		78.8	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	8.24	0.245	"	4.66		177	50-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	9.00	0.245	"	4.71		191	50-200				
Perfluoro-n-butanoic acid (PFBA)	4.74	0.245	"	4.91		96.7	50-130				
Surrogate: M3PFBS	4.34		"	4.56		95.3	25-150				
Surrogate: M5PFHxA	4.79		"	4.91		97.5	25-150				
Surrogate: M4PFHpA	4.03		"	4.91		82.2	25-150				
Surrogate: M3PFHxS	4.17		"	4.64		89.9	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.63		"	4.91		94.3	25-150				
Surrogate: M6PFDA	3.66		"	4.91		74.5	25-150				
Surrogate: M7PFUdA	3.41		"	4.91		69.4	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	3.90		"	4.91		79.5	25-150				
Surrogate: M2PFTeDA	3.34		"	4.91		68.0	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	5.15		"	4.91		105	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.87		"	4.70		82.4	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.37		"	4.91		110	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.56		"	4.91		72.5	10-150				
Surrogate: d3-N-MeFOSAA	3.22		"	4.91		65.5	25-150				
Surrogate: d5-N-EtFOSAA	4.12		"	4.91		84.0	25-150				
Surrogate: M2-6:2 FTS	5.61		"	4.66		120	25-200				
Surrogate: M2-8:2 FTS	6.03		"	4.70		128	25-200				
Surrogate: M9PFNA	5.16		"	4.91		105	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10573 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike (BH10573-MS1) Matrix Spike						*Source sample: 21H0486-01 (414_EP19_17.5)			Prepared: 08/11/2021 Analyzed: 08/12/2021		
Perfluorobutanesulfonic acid (PFBS)	4.59	0.256	ug/kg dry	4.54	ND	101	25-150				
Perfluorohexanoic acid (PFHxA)	5.11	0.256	"	5.13	ND	99.7	25-150				
Perfluoroheptanoic acid (PFHpA)	5.51	0.256	"	5.13	ND	107	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.34	0.256	"	4.67	ND	92.8	25-150				
Perfluorooctanoic acid (PFOA)	5.05	0.256	"	5.13	0.106	96.4	25-150				
Perfluorooctanesulfonic acid (PFOS)	4.48	0.256	"	4.75	ND	94.5	25-150				
Perfluorononanoic acid (PFNA)	4.22	0.256	"	5.13	ND	82.3	25-150				
Perfluorodecanoic acid (PFDA)	4.88	0.256	"	5.13	ND	95.1	25-150				
Perfluoroundecanoic acid (PFUnA)	4.84	0.256	"	5.13	ND	94.5	25-150				
Perfluorododecanoic acid (PFDoA)	4.46	0.256	"	5.13	ND	87.0	25-150				
Perfluorotridecanoic acid (PFTriDA)	4.82	0.256	"	5.13	ND	94.1	25-150				
Perfluorotetradecanoic acid (PFTA)	5.28	0.256	"	5.13	ND	103	25-150				
N-MeFOSAA	5.40	0.256	"	5.13	ND	105	25-150				
N-EtFOSAA	5.13	0.256	"	5.13	ND	100	25-150				
Perfluoropentanoic acid (PFPeA)	4.93	0.256	"	5.13	ND	96.2	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	5.01	0.256	"	5.13	ND	97.7	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.69	0.256	"	4.87	ND	117	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	4.14	0.256	"	4.95	ND	83.8	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	9.16	0.256	"	4.87	ND	188	25-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	8.39	0.256	"	4.92	ND	170	25-200				
Perfluoro-n-butanoic acid (PFBA)	5.01	0.256	"	5.13	ND	97.8	25-150				
Surrogate: M3PFBS	4.01		"	4.76		84.3	25-150				
Surrogate: M5PFHxA	4.53		"	5.13		88.5	25-150				
Surrogate: M4PFHpA	3.87		"	5.13		75.5	25-150				
Surrogate: M3PFHxS	4.05		"	4.85		83.6	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.61		"	5.13		90.0	25-150				
Surrogate: M6PFDA	3.67		"	5.13		71.6	25-150				
Surrogate: M7PFUdA	3.43		"	5.13		66.9	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	3.74		"	5.13		72.9	25-150				
Surrogate: M2PFTeDA	2.92		"	5.13		57.0	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	4.96		"	5.13		96.7	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.22		"	4.90		65.6	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.04		"	5.13		98.3	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.42		"	5.13		66.8	10-150				
Surrogate: d3-N-MeFOSAA	3.26		"	5.13		63.7	25-150				
Surrogate: d5-N-EtFOSAA	3.68		"	5.13		71.9	25-150				
Surrogate: M2-6:2 FTS	5.99		"	4.86		123	25-200				
Surrogate: M2-8:2 FTS	8.39		"	4.91		171	25-200				
Surrogate: M9PFNA	5.04		"	5.13		98.4	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10573 - SPE PFAS Extraction-Soil-EPA 537m

Matrix Spike Dup (BH10573-1) Matrix Spike Dup Source sample: 21H0486-01 (414_EP19_17.5) Prepared: 08/11/2021 Analyzed: 08/12/2021

Perfluorobutanesulfonic acid (PFBS)	4.55	0.247	ug/kg dry	4.37	ND	104	25-150		0.851	35	
Perfluorohexanoic acid (PFHxA)	5.08	0.247	"	4.94	ND	103	25-150		0.675	35	
Perfluoroheptanoic acid (PFHpA)	5.58	0.247	"	4.94	ND	113	25-150		1.25	35	
Perfluorohexanesulfonic acid (PFHxS)	4.26	0.247	"	4.51	ND	94.6	25-150		1.73	35	
Perfluorooctanoic acid (PFOA)	5.05	0.247	"	4.94	0.106	100	25-150		0.0809	35	
Perfluorooctanesulfonic acid (PFOS)	4.62	0.247	"	4.58	ND	101	25-150		2.97	35	
Perfluorononanoic acid (PFNA)	4.40	0.247	"	4.94	ND	89.0	25-150		4.12	35	
Perfluorodecanoic acid (PFDA)	4.98	0.247	"	4.94	ND	101	25-150		2.19	35	
Perfluoroundecanoic acid (PFUnA)	4.92	0.247	"	4.94	ND	99.6	25-150		1.62	35	
Perfluorododecanoic acid (PFDoA)	4.48	0.247	"	4.94	ND	90.6	25-150		0.369	35	
Perfluorotridecanoic acid (PFTriDA)	4.63	0.247	"	4.94	ND	93.7	25-150		4.06	35	
Perfluorotetradecanoic acid (PFTA)	5.28	0.247	"	4.94	ND	107	25-150		0.0532	35	
N-MeFOSAA	5.62	0.247	"	4.94	ND	114	25-150		3.98	35	
N-EtFOSAA	4.76	0.247	"	4.94	ND	96.3	25-150		7.46	35	
Perfluoropentanoic acid (PFPeA)	4.89	0.247	"	4.94	ND	98.9	25-150		0.830	35	
Perfluoro-1-octanesulfonamide (FOSA)	5.03	0.247	"	4.94	ND	102	25-150		0.437	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.62	0.247	"	4.70	ND	120	25-150		1.22	35	
Perfluoro-1-decanesulfonic acid (PFDS)	4.01	0.247	"	4.77	ND	84.1	25-150		3.27	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	8.90	0.247	"	4.70	ND	190	25-200		2.83	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	9.33	0.247	"	4.75	ND	197	25-200		10.7	35	
Perfluoro-n-butanoic acid (PFBA)	5.27	0.247	"	4.94	ND	107	25-150		4.91	35	
Surrogate: M3PFBS	3.71		"	4.59		80.7	25-150				
Surrogate: M5PFHxA	4.15		"	4.94		83.9	25-150				
Surrogate: M4PFHpA	3.50		"	4.94		70.8	25-150				
Surrogate: M3PFHxS	3.87		"	4.68		82.7	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.24		"	4.94		85.9	25-150				
Surrogate: M6PFDA	4.00		"	4.94		81.0	25-150				
Surrogate: M7PFUdA	3.29		"	4.94		66.5	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	3.42		"	4.94		69.3	25-150				
Surrogate: M2PFTeDA	2.79		"	4.94		56.5	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	4.41		"	4.94		89.2	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.21		"	4.73		67.8	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.53		"	4.94		91.5	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.43		"	4.94		69.3	10-150				
Surrogate: d3-N-MeFOSAA	3.07		"	4.94		62.1	25-150				
Surrogate: d5-N-EtFOSAA	4.20		"	4.94		84.9	25-150				
Surrogate: M2-6:2 FTS	7.18		"	4.69		153	25-200				
Surrogate: M2-8:2 FTS	16.4		"	4.74		346	25-200				
Surrogate: M9PFNA	4.33		"	4.94		87.6	25-150				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10581 - EPA 3550C

Blank (BH10581-BLK1)	Blank	Prepared: 08/11/2021 Analyzed: 08/12/2021									
4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								

Surrogate: Decachlorobiphenyl	0.0771		"	0.0664		116	30-150				
Surrogate: Tetrachloro-m-xylene	0.0571		"	0.0664		86.0	30-150				

LCS (BH10581-BS1)	LCS	Prepared: 08/11/2021 Analyzed: 08/12/2021									
4,4'-DDD	0.0261	0.00164	mg/kg wet	0.0332		78.5	40-140				
4,4'-DDE	0.0189	0.00164	"	0.0332		57.0	40-140				
4,4'-DDT	0.0197	0.00164	"	0.0332		59.4	40-140				
Aldrin	0.0333	0.00164	"	0.0332		100	40-140				
alpha-BHC	0.0309	0.00164	"	0.0332		92.9	40-140				
alpha-Chlordane	0.0326	0.00164	"	0.0332		98.2	40-140				
beta-BHC	0.0326	0.00164	"	0.0332		98.2	40-140				
delta-BHC	0.0285	0.00164	"	0.0332		85.9	40-140				
Dieldrin	0.0343	0.00164	"	0.0332		103	40-140				
Endosulfan I	0.0368	0.00164	"	0.0332		111	40-140				
Endosulfan II	0.0367	0.00164	"	0.0332		111	40-140				
Endosulfan sulfate	0.0280	0.00164	"	0.0332		84.2	40-140				
Endrin	0.0266	0.00164	"	0.0332		80.0	40-140				
Endrin aldehyde	0.0285	0.00164	"	0.0332		85.6	40-140				
Endrin ketone	0.0297	0.00164	"	0.0332		89.4	40-140				
gamma-BHC (Lindane)	0.0311	0.00164	"	0.0332		93.6	40-140				
gamma-Chlordane	0.0331	0.00164	"	0.0332		99.7	40-140				
Heptachlor	0.0369	0.00164	"	0.0332		111	40-140				
Heptachlor epoxide	0.0348	0.00164	"	0.0332		105	40-140				
Methoxychlor	0.0135	0.00164	"	0.0332		40.7	40-140				

Surrogate: Decachlorobiphenyl	0.0556		"	0.0664		83.7	30-150				
Surrogate: Tetrachloro-m-xylene	0.0587		"	0.0664		88.4	30-150				



Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

Batch BH10581 - EPA 3550C

Blank (BH10581-BLK2)		Blank											Prepared: 08/11/2021 Analyzed: 08/12/2021					
Aroclor 1016	ND	0.0166	mg/kg wet															
Aroclor 1221	ND	0.0166	"															
Aroclor 1232	ND	0.0166	"															
Aroclor 1242	ND	0.0166	"															
Aroclor 1248	ND	0.0166	"															
Aroclor 1254	ND	0.0166	"															
Aroclor 1260	ND	0.0166	"															
Total PCBs	ND	0.0166	"															
<i>Surrogate: Tetrachloro-m-xylene</i>														0.0631	"	0.0664	95.0	30-120
<i>Surrogate: Decachlorobiphenyl</i>														0.0422	"	0.0664	63.5	30-120

LCS (BH10581-BS2)		LCS											Prepared: 08/11/2021 Analyzed: 08/12/2021					
Aroclor 1016	0.339	0.0166	mg/kg wet	0.332	102	40-130												
Aroclor 1260	0.307	0.0166	"	0.332	92.3	40-130												
<i>Surrogate: Tetrachloro-m-xylene</i>														0.0558	"	0.0664	84.0	30-120
<i>Surrogate: Decachlorobiphenyl</i>														0.0346	"	0.0664	52.0	30-120

Batch Y1H1251 - BH10547

Aroclor Reference (Y1H1251- Aroclor Reference)		Aroclor Reference											Prepared & Analyzed: 08/12/2021					
<i>Surrogate: Tetrachloro-m-xylene</i>														0.179	ug/mL	0.200	89.5	
<i>Surrogate: Decachlorobiphenyl</i>														0.166	"	0.200	83.0	



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10539 - EPA 3050B

Blank (BH10539-BLK1)	Blank	Prepared: 08/10/2021 Analyzed: 08/11/2021									
Aluminum	ND	5.00	mg/kg wet								
Antimony	ND	2.50	"								
Arsenic	ND	1.50	"								
Barium	ND	2.50	"								
Beryllium	ND	0.050	"								
Cadmium	ND	0.300	"								
Calcium	ND	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.400	"								
Copper	ND	2.00	"								
Iron	ND	25.0	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	1.00	"								
Potassium	6.74	5.00	"								
Selenium	ND	2.50	"								
Silver	ND	0.500	"								
Sodium	ND	50.0	"								
Thallium	ND	2.50	"								
Vanadium	ND	1.00	"								
Zinc	ND	2.50	"								

Duplicate (BH10539-DUP1)	Duplicate	*Source sample: 21H0479-24 (Duplicate) Prepared: 08/10/2021 Analyzed: 08/11/2021									
Aluminum	13500	5.58	mg/kg dry	13800				2.49	35		
Antimony	ND	2.79	"	ND					35		
Arsenic	5.36	1.67	"	4.41				19.5	35		
Barium	47.2	2.79	"	41.3				13.3	35		
Beryllium	ND	0.056	"	ND					35		
Cadmium	ND	0.335	"	ND					35		
Calcium	1150	5.58	"	1160				0.662	35		
Chromium	26.3	0.558	"	22.6				14.9	35		
Cobalt	9.72	0.446	"	10.0				3.14	35		
Copper	11.6	2.23	"	11.7				0.307	35		
Iron	24400	27.9	"	24000				1.71	35		
Lead	4.92	0.558	"	4.98				1.28	35		
Magnesium	3470	5.58	"	3770				8.29	35		
Manganese	639	0.558	"	503				23.8	35		
Nickel	15.1	1.12	"	14.0				7.31	35		
Potassium	1350	5.58	"	1330				1.92	35		
Selenium	ND	2.79	"	ND					35		
Silver	ND	0.558	"	ND					35		
Sodium	ND	55.8	"	ND					35		
Thallium	ND	2.79	"	ND					35		
Vanadium	33.7	1.12	"	34.8				3.19	35		
Zinc	30.7	2.79	"	29.9				2.94	35		



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit

Batch BH10539 - EPA 3050B

Matrix Spike (BH10539-MS1)	Matrix Spike	*Source sample: 21H0479-24 (Matrix Spike)					Prepared: 08/10/2021 Analyzed: 08/11/2021				
Aluminum	16800	5.58	mg/kg dry	223	13800	NR	75-125	High Bias			
Antimony	ND	2.79	"	27.9	ND		75-125	Low Bias			
Arsenic	227	1.67	"	223	4.41	99.9	75-125				
Barium	281	2.79	"	223	41.3	108	75-125				
Beryllium	2.84	0.056	"	5.58	ND	51.0	75-125	Low Bias			
Cadmium	5.57	0.335	"	5.58	ND	99.8	75-125				
Calcium	1590	5.58	"	112	1160	388	75-125	High Bias			
Chromium	58.3	0.558	"	22.3	22.6	160	75-125	High Bias			
Cobalt	67.9	0.446	"	55.8	10.0	104	75-125				
Copper	42.4	2.23	"	27.9	11.7	110	75-125				
Iron	32200	27.9	"	112	24000	NR	75-125	High Bias			
Lead	64.5	0.558	"	55.8	4.98	107	75-125				
Magnesium	4100	5.58	"	112	3770	299	75-125	High Bias			
Manganese	366	0.558	"	55.8	503	NR	75-125	Low Bias			
Nickel	73.5	1.12	"	55.8	14.0	107	75-125				
Potassium	1740	5.58	"	112	1330	374	75-125	High Bias			
Selenium	163	2.79	"	223	ND	73.1	75-125	Low Bias			
Silver	ND	0.558	"	5.58	ND		75-125	Low Bias			
Sodium	146	55.8	"	112	ND	131	75-125	High Bias			
Thallium	213	2.79	"	223	ND	95.5	75-125				
Vanadium	96.5	1.12	"	55.8	34.8	110	75-125				
Zinc	91.0	2.79	"	55.8	29.9	110	75-125				

Post Spike (BH10539-PS1)	Post Spike	*Source sample: 21H0479-24 (Post Spike)					Prepared: 08/10/2021 Analyzed: 08/11/2021				
Aluminum	125		ug/mL	2.00	124	66.3	75-125	Low Bias			
Antimony	0.219		"	0.250	-0.032	87.4	75-125				
Arsenic	2.06		"	2.00	0.039	101	75-125				
Barium	2.52		"	2.00	0.370	108	75-125				
Beryllium	0.030		"	0.0500	-0.022	60.1	75-125	Low Bias			
Cadmium	0.051		"	0.0500	-0.001	101	75-125				
Calcium	11.3		"	1.00	10.4	97.2	75-125				
Chromium	0.402		"	0.200	0.203	99.5	75-125				
Cobalt	0.618		"	0.500	0.090	106	75-125				
Copper	0.375		"	0.250	0.104	108	75-125				
Iron	214		"	1.00	215	NR	75-125	Low Bias			
Lead	0.578		"	0.500	0.045	107	75-125				
Magnesium	34.6		"	1.00	33.8	84.0	75-125				
Manganese	4.96		"	0.500	4.50	90.5	75-125				
Nickel	0.647		"	0.500	0.126	104	75-125				
Potassium	13.1		"	1.00	11.9	119	75-125				
Selenium	1.58		"	2.00	-0.188	79.2	75-125				
Silver	0.001		"	0.0500	-0.051	2.85	75-125	Low Bias			
Sodium	1.24		"	1.00	0.413	82.7	75-125				
Thallium	1.93		"	2.00	-0.085	96.6	75-125				
Vanadium	0.824		"	0.500	0.312	102	75-125				
Zinc	0.781		"	0.500	0.267	103	75-125				



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit		Level	Result					RPD	

Batch BH10539 - EPA 3050B

Reference (BH10539-SRMI)	Reference	Prepared: 08/10/2021 Analyzed: 08/11/2021									
Aluminum	9590	5.00	mg/kg wet	8130		118	49.9-150.1				
Antimony	79.4	2.50	"	134		59.3	19.3-250				
Arsenic	168	1.50	"	156		108	69.9-130.1				
Barium	267	2.50	"	239		112	74.9-124.7				
Beryllium	172	0.050	"	169		102	75.1-125.4				
Cadmium	140	0.300	"	137		102	75.2-124.8				
Calcium	5260	5.00	"	4760		111	72.7-127.5				
Chromium	157	0.500	"	154		102	70.1-129.9				
Cobalt	129	0.400	"	121		106	75-124.8				
Copper	62.0	2.00	"	54.9		113	74.9-125				
Iron	15200	25.0	"	14100		108	34.9-164.5				
Lead	137	0.500	"	130		105	71.8-128.5				
Magnesium	2610	5.00	"	2320		112	62.1-137.9				
Manganese	297	0.500	"	269		111	74-126.4				
Nickel	66.1	1.00	"	53.9		123	69.9-129.9				
Potassium	2310	5.00	"	2020		114	58.9-141.1				
Selenium	140	2.50	"	167		84.0	67.7-132.3				
Silver	34.8	0.500	"	33.6		104	68.5-131.3				
Sodium	137	50.0	"	133		103	35-165.4				
Thallium	110	2.50	"	112		97.8	67.9-131.3				
Vanadium	64.9	1.00	"	62.6		104	59.1-141.1				
Zinc	163	2.50	"	158		103	70.3-129.7				



Mercury by EPA 7000/200 Series Methods - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit		Level	Result					Limit			
Batch BH10654 - EPA 7473 soil													
Blank (BH10654-BLK1)	Blank										Prepared & Analyzed: 08/12/2021		
Mercury	ND	0.0300	mg/kg wet										
Duplicate (BH10654-DUP1)	Duplicate	*Source sample: 21H0246-01 (Duplicate)									Prepared & Analyzed: 08/12/2021		
Mercury	0.0930	0.0303	mg/kg dry		0.0813						13.5	35	
Matrix Spike (BH10654-MS1)	Matrix Spike	*Source sample: 21H0246-01 (Matrix Spike)									Prepared & Analyzed: 08/12/2021		
Mercury	0.542	0.0303	mg/kg dry	0.253	0.0813	182	75-125	High Bias					
Reference (BH10654-SRM1)	Reference										Prepared & Analyzed: 08/12/2021		
Mercury	2.9134	0.0300	mg/kg wet	2.72		107	59.9-140.1						



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BH10549 - EPA SW846-3060												
Blank (BH10549-BLK1)	Blank								Prepared & Analyzed: 08/11/2021			
Chromium, Hexavalent	ND	0.500	mg/kg wet									
Duplicate (BH10549-DUP1)	Duplicate	*Source sample: 21H0330-01 (Duplicate)								Prepared & Analyzed: 08/11/2021		
Chromium, Hexavalent	ND	0.534	mg/kg dry		ND						35	
Matrix Spike (BH10549-MS1)	Matrix Spike	*Source sample: 21H0330-01 (Matrix Spike)								Prepared & Analyzed: 08/11/2021		
Chromium, Hexavalent	18.8	0.534	mg/kg dry	21.4	ND	87.8	75-125					
Matrix Spike (BH10549-MS2)	Matrix Spike	*Source sample: 21H0330-01 (Matrix Spike)								Prepared & Analyzed: 08/11/2021		
Chromium, Hexavalent	16.7	0.534	mg/kg dry	21.4	ND	78.2	75-125					
Reference (BH10549-SRM1)	Reference								Prepared & Analyzed: 08/11/2021			
Chromium, Hexavalent	96.2		mg/L	109		88.3	30-169.7					
Batch BH10553 - Analysis Preparation Soil												
Blank (BH10553-BLK1)	Blank								Prepared & Analyzed: 08/11/2021			
Cyanide, total	ND	0.500	mg/kg wet									
Duplicate (BH10553-DUP1)	Duplicate	*Source sample: 21H0487-05 (Duplicate)								Prepared & Analyzed: 08/11/2021		
Cyanide, total	ND	0.500	mg/kg wet		ND						15	
Matrix Spike (BH10553-MS1)	Matrix Spike	*Source sample: 21H0487-05 (Matrix Spike)								Prepared & Analyzed: 08/11/2021		
Cyanide, total	7.76	0.500	mg/kg wet	10.0	ND	77.6	79.6-107	Low Bias				
Reference (BH10553-SRM1)	Reference								Prepared & Analyzed: 08/11/2021			
Cyanide, total	90.9		ug/mL	91.9		98.9	42.22-159.96					



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BH10645 - Analysis Preparation Soil												
Blank (BH10645-BLK1)	Blank								Prepared & Analyzed: 08/12/2021			
Cyanide, total	ND	0.500	mg/kg wet									
Duplicate (BH10645-DUP1)	Duplicate	*Source sample: 21H0519-17 (Duplicate)								Prepared & Analyzed: 08/12/2021		
Cyanide, total	ND	0.500	mg/kg wet		ND					15		
Matrix Spike (BH10645-MS1)	Matrix Spike	*Source sample: 21H0519-17 (Matrix Spike)								Prepared & Analyzed: 08/12/2021		
Cyanide, total	3.45	0.500	mg/kg wet	10.0	ND	34.5	79.6-107	Low Bias				
Reference (BH10645-SRM1)	Reference								Prepared & Analyzed: 08/12/2021			
Cyanide, total	92.9		ug/mL	91.9		101	42.22-159.96					



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10597 - % Solids Prep

Duplicate (BH10597-DUP1)	Duplicate	*Source sample: 21H0486-03 (414 EP09_14.5)						Prepared & Analyzed: 08/11/2021				
% Solids	95.1	0.100	%		95.1				0.0837	20		



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
21H0486-01	414_EP19_17.5	40mL Vial with Stir Bar-Cool 4° C
21H0486-02	414_EP14_14.5	40mL Vial with Stir Bar-Cool 4° C
21H0486-03	414_EP09_14.5	40mL Vial with Stir Bar-Cool 4° C



Sample and Data Qualifiers Relating to This Work Order

S-GC	Two surrogates are used for this analysis. One surrogate recovered within control limits therefore the analysis is acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
PTel-VAR	This fluorotelomer acid is known to be unstable in mixtures of standards due to dehydrofluorination and formation of methoxy adducts. The data user should take note. These issues create variability in CCVs, LCs and MSs.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-MBLk	Analyte was detected in the batch method blank above the Reporting Limit.
M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.
M-CRL	The RL check for this element recovered outside of control limits.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.



High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



Field Chain-of-Custody Record

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No.
21111486

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 clientservices@yorklab.com www.yorklab.com 800-306-YORK 800-306-9675 Page 1 of 1

YOUR INFORMATION		Report To:	Invoice To:
Langen			
31 Penn Plaza, 360 W 3rd Street, 8th Floor, New York, NY 10011			YOUR PROJECT NUMBER 170488401
212-470-5400			YOUR PROJECT NAME A1A/444 Gerard Ave
K. Semen @ Langen.com			YOUR POC:

Matrix Codes	Samples From	Report / EDD Type (circle selections)	YORK Reg. Comp.
S - soil / solid	New York	<input checked="" type="checkbox"/> Summary Report	Compared to the following Regulation(s): (please fill in)
GW - groundwater	New Jersey	<input type="checkbox"/> QA Report	
DW - drinking water	Connecticut	<input type="checkbox"/> NY ASP A Package	
VW - wastewater	Pennsylvania	<input type="checkbox"/> NY ASP B Package	
O - Oil	Other:	Other:	

Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
S	08/10/21 14:10	TCL Part 375 VOCs and SVOCs	See Analytical sheet
S	08/10/21 14:20	PCBs, Pesticides, metals including Cyanide, hexavalent and trivalent Chromium, PFAS, 1,4-dioxane *	See Analytical sheet
S	08/10/21 14:30		See Analytical sheet
		* Run for all samples	

Comments: Please also email kesmen1@langen.com and detemurymint@langen.com

Signature: <i>LSW</i>	Signature: <i>LSW</i>	Signature: <i>LSW</i>
Date: 08/10/21 15:30	Date: 08/10/21 15:30	Date: 08/10/21 15:30
Signature: <i>LSW</i>	Signature: <i>LSW</i>	Signature: <i>LSW</i>
Date: 08/10/21 15:30	Date: 08/10/21 15:30	Date: 08/10/21 15:30
Signature: <i>LSW</i>	Signature: <i>LSW</i>	Signature: <i>LSW</i>
Date: 08/10/21 15:30	Date: 08/10/21 15:30	Date: 08/10/21 15:30
Signature: <i>LSW</i>	Signature: <i>LSW</i>	Signature: <i>LSW</i>
Date: 08/10/21 15:30	Date: 08/10/21 15:30	Date: 08/10/21 15:30

Samples collected at time of lab pickup? circle Yes or No
Temperature of samples at time of pickup: 4.0



Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

Attention: Kimberly Semon

Report Date: 08/06/2021

Client Project ID: 170488401

York Project (SDG) No.: 21H0134

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
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(203) 325-1371

132-02 89th AVENUE
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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 08/06/2021
Client Project ID: 170488401
York Project (SDG) No.: 21H0134

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Kimberly Semon

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 03, 2021 and listed below. The project was identified as your project: **170488401**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

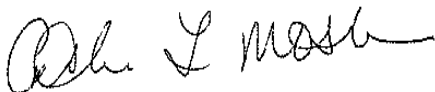
Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21H0134-01	414_EP11_8.5	Soil	08/03/2021	08/03/2021
21H0134-02	414_EP16_8.5	Soil	08/03/2021	08/03/2021

General Notes for York Project (SDG) No.: 21H0134

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By



Cassie L. Mosher
Laboratory Manager

Date: 08/06/2021





Sample Information

Client Sample ID: 414_EP11_8.5

York Sample ID: 21H0134-01

<u>York Project (SDG) No.</u> 21H0134	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 3, 2021 3:35 pm	<u>Date Received</u> 08/03/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/04/2021 06:47	08/04/2021 15:23	KHA
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/04/2021 06:47	08/04/2021 15:23	KHA
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.049	0.097	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
78-93-3	2-Butanone	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA



Sample Information

Client Sample ID: 414_EP11_8.5

York Sample ID: 21H0134-01

<u>York Project (SDG) No.</u> 21H0134	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 3, 2021 3:35 pm	<u>Date Received</u> 08/03/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
67-64-1	Acetone	ND		mg/kg dry	0.0049	0.0097	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
107-02-8	Acrolein	ND		mg/kg dry	0.0049	0.0097	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
71-43-2	Benzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
75-25-2	Bromoform	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
74-83-9	Bromomethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
75-00-3	Chloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
67-66-3	Chloroform	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
74-87-3	Chloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
110-82-7	Cyclohexane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
74-95-3	Dibromomethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA



Sample Information

Client Sample ID: 414_EP11_8.5

York Sample ID: 21H0134-01

<u>York Project (SDG) No.</u> 21H0134	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 3, 2021 3:35 pm	<u>Date Received</u> 08/03/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
79-20-9	Methyl acetate	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
75-09-2	Methylene chloride	ND		mg/kg dry	0.0049	0.0097	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
95-47-6	o-Xylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0049	0.0097	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
100-42-5	Styrene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
108-88-3	Toluene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA



Sample Information

Client Sample ID: 414_EP11_8.5

York Sample ID: 21H0134-01

<u>York Project (SDG) No.</u> 21H0134	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 3, 2021 3:35 pm	<u>Date Received</u> 08/03/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:23	KHA
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0073	0.015	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/04/2021 06:47	08/04/2021 15:23	KHA
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	109 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	98.1 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	102 %			76-130						

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0872	0.174	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0872	0.174	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0872	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH



Sample Information

Client Sample ID: 414_EP11_8.5

York Sample ID: 21H0134-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21H0134

170488401

Soil

August 3, 2021 3:35 pm

08/03/2021

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0872	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0872	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0872	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0872	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0872	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
62-53-3	Aniline	ND		mg/kg dry	0.175	0.349	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
92-87-5	Benzidine	ND		mg/kg dry	0.175	0.349	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH



Sample Information

Client Sample ID: 414_EP11_8.5

York Sample ID: 21H0134-01

<u>York Project (SDG) No.</u> 21H0134	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 3, 2021 3:35 pm	<u>Date Received</u> 08/03/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0872	0.174	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0872	0.174	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH



Sample Information

Client Sample ID: 414_EP11_8.5

York Sample ID: 21H0134-01

<u>York Project (SDG) No.</u> 21H0134	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 3, 2021 3:35 pm	<u>Date Received</u> 08/03/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
108-95-2	Phenol	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0437	0.0872	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH
110-86-1	Pyridine	ND		mg/kg dry	0.175	0.349	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 10:59	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	84.6 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	69.7 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	82.8 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	82.3 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	95.8 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	79.6 %	24-116



Sample Information

Client Sample ID: 414_EP11_8.5

York Sample ID: 21H0134-01

<u>York Project (SDG) No.</u> 21H0134	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 3, 2021 3:35 pm	<u>Date Received</u> 08/03/2021
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Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.2	1	EPA 8270D SIM Certifications: NELAC-NY10854	08/04/2021 14:54	08/05/2021 15:46	KH
Surrogate Recoveries		Result			Acceptance Range					
17647-74-4	Surrogate: 1,4-Dioxane-d8	48.0 %			39-127.5					

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 21:52	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 21:52	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 21:52	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 21:52	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 21:52	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 21:52	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 21:52	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 21:52	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 21:52	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 21:52	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 21:52	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 21:52	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 21:52	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 21:52	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 21:52	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 21:52	WL



Sample Information

Client Sample ID: 414_EP11_8.5

York Sample ID: 21H0134-01

<u>York Project (SDG) No.</u> 21H0134	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 3, 2021 3:35 pm	<u>Date Received</u> 08/03/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 21:52	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 21:52	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 21:52	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 21:52	WL
375-22-4	* Perfluoro-n-butyanoic acid (PFBA)	ND		ug/kg dry	0.245	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 21:52	WL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	76.9 %	25-150
Surrogate: M5PFHxA	82.4 %	25-150
Surrogate: M4PFHpA	68.2 %	25-150
Surrogate: M3PFHxS	62.2 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic aci	81.8 %	25-150
Surrogate: M6PFDA	77.3 %	25-150
Surrogate: M7PFUdA	69.0 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	79.8 %	25-150
Surrogate: M2PFTeDA	45.4 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic aci	94.8 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfor	65.8 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic ac	94.1 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfor	52.4 %	10-150
Surrogate: d3-N-MeFOSAA	62.9 %	25-150
Surrogate: d5-N-EtFOSAA	72.6 %	25-150
Surrogate: M2-6:2 FTS	95.1 %	25-200
Surrogate: M2-8:2 FTS	132 %	25-200
Surrogate: M9PFNA	96.5 %	25-150

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:19	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:19	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:19	CM





Sample Information

Client Sample ID: 414_EP11_8.5

York Sample ID: 21H0134-01

<u>York Project (SDG) No.</u> 21H0134	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 3, 2021 3:35 pm	<u>Date Received</u> 08/03/2021
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:19	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:19	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/04/2021 11:25	08/06/2021 05:19	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:19	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:19	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:19	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:19	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/04/2021 11:25	08/06/2021 05:19	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:19	CM
72-20-8	Endrin	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:19	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:19	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:19	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:19	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/04/2021 11:25	08/06/2021 05:19	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:19	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:19	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:19	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:19	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0339	5	EPA 8081B Certifications:	08/04/2021 11:25	08/06/2021 05:19	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	Surrogate: Decachlorobiphenyl	76.3 %	30-150
877-09-8	Surrogate: Tetrachloro-m-xylene	106 %	30-150



Sample Information

Client Sample ID: 414_EP11_8.5

York Sample ID: 21H0134-01

York Project (SDG) No. 21H0134

Client Project ID 170488401

Matrix Soil

Collection Date/Time August 3, 2021 3:35 pm

Date Received 08/03/2021

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include Aroclor 1016, 1221, 1232, 1242, 1248, 1254, 1260, * Total PCBs, and Surrogate Recoveries for Tetrachloro-m-xylene and Decachlorobiphenyl.

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, and Cobalt.



Sample Information

Client Sample ID: 414_EP11_8.5

York Sample ID: 21H0134-01

<u>York Project (SDG) No.</u> 21H0134	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 3, 2021 3:35 pm	<u>Date Received</u> 08/03/2021
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	7.08		mg/kg dry	2.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:17	EM
7439-89-6	Iron	9760		mg/kg dry	26.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:17	EM
7439-92-1	Lead	2.99		mg/kg dry	0.526	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:17	EM
7439-95-4	Magnesium	2270		mg/kg dry	5.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:17	EM
7439-96-5	Manganese	316		mg/kg dry	0.526	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:17	EM
7440-02-0	Nickel	10.0		mg/kg dry	1.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:17	EM
7440-09-7	Potassium	1190		mg/kg dry	5.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:17	EM
7782-49-2	Selenium	ND		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:17	EM
7440-22-4	Silver	ND		mg/kg dry	0.526	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:17	EM
7440-23-5	Sodium	82.5		mg/kg dry	52.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:17	EM
7440-28-0	Thallium	ND		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:17	EM
7440-62-2	Vanadium	11.9		mg/kg dry	1.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:17	EM
7440-66-6	Zinc	20.2		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:17	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0316	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	08/05/2021 13:47	08/05/2021 15:17	BR

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.526	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	08/04/2021 13:53	08/04/2021 17:49	ZTS

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: 414_EP11_8.5

York Sample ID: 21H0134-01

<u>York Project (SDG) No.</u> 21H0134	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 3, 2021 3:35 pm	<u>Date Received</u> 08/03/2021
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	8.58		mg/kg	0.500	1	Calculation	08/04/2021 14:27	08/05/2021 15:40	PAM

Certifications:

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.526	1	EPA 9014/9010C	08/04/2021 07:50	08/04/2021 14:41	JAG

Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	95.0		%	0.100	1	SM 2540G	08/04/2021 12:36	08/04/2021 14:46	VR

Certifications: CTDOH



Sample Information

Client Sample ID: 414_EP16_8.5

York Sample ID: 21H0134-02

<u>York Project (SDG) No.</u> 21H0134	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 3, 2021 3:30 pm	<u>Date Received</u> 08/03/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/04/2021 06:47	08/04/2021 15:49	KHA
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/04/2021 06:47	08/04/2021 15:49	KHA
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.053	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
78-93-3	2-Butanone	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA



Sample Information

Client Sample ID: 414_EP16_8.5

York Sample ID: 21H0134-02

<u>York Project (SDG) No.</u> 21H0134	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 3, 2021 3:30 pm	<u>Date Received</u> 08/03/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
67-64-1	Acetone	ND		mg/kg dry	0.0053	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
107-02-8	Acrolein	ND		mg/kg dry	0.0053	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA



Sample Information

Client Sample ID: 414_EP16_8.5

York Sample ID: 21H0134-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21H0134

170488401

Soil

August 3, 2021 3:30 pm

08/03/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
75-09-2	Methylene chloride	ND		mg/kg dry	0.0053	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0053	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/04/2021 06:47	08/04/2021 15:49	KHA



Sample Information

Client Sample ID: 414_EP16_8.5

York Sample ID: 21H0134-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21H0134

170488401

Soil

August 3, 2021 3:30 pm

08/03/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for Vinyl Chloride, Xylenes, Total, and Surrogate Recoveries.

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various chlorophenols and biphenyls.



Sample Information

Client Sample ID: 414_EP16_8.5

York Sample ID: 21H0134-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21H0134

170488401

Soil

August 3, 2021 3:30 pm

08/03/2021

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0896	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0896	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0896	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0896	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0896	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
62-53-3	Aniline	ND		mg/kg dry	0.179	0.359	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
92-87-5	Benzidine	ND		mg/kg dry	0.179	0.359	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH



Sample Information

Client Sample ID: 414_EP16_8.5

York Sample ID: 21H0134-02

<u>York Project (SDG) No.</u> 21H0134	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 3, 2021 3:30 pm	<u>Date Received</u> 08/03/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0896	0.179	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0896	0.179	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH



Sample Information

Client Sample ID: 414_EP16_8.5

York Sample ID: 21H0134-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21H0134

170488401

Soil

August 3, 2021 3:30 pm

08/03/2021

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
108-95-2	Phenol	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH
110-86-1	Pyridine	ND		mg/kg dry	0.179	0.359	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/05/2021 12:08	08/06/2021 11:30	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: SURR: 2-Fluorophenol	80.1 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	67.2 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	77.3 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	74.4 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	90.4 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	84.3 %	24-116



Sample Information

Client Sample ID: 414_EP16_8.5

York Sample ID: 21H0134-02

<u>York Project (SDG) No.</u> 21H0134	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 3, 2021 3:30 pm	<u>Date Received</u> 08/03/2021
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Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.4	1	EPA 8270D SIM Certifications: NELAC-NY10854	08/04/2021 14:54	08/05/2021 16:03	KH
Surrogate Recoveries		Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	44.0 %	39-127.5							

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 22:14	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 22:14	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 22:14	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 22:14	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 22:14	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 22:14	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 22:14	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 22:14	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 22:14	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 22:14	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 22:14	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 22:14	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 22:14	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 22:14	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 22:14	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 22:14	WL



Sample Information

Client Sample ID: 414_EP16_8.5

York Sample ID: 21H0134-02

<u>York Project (SDG) No.</u> 21H0134	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 3, 2021 3:30 pm	<u>Date Received</u> 08/03/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 22:14	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 22:14	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 22:14	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 22:14	WL
375-22-4	* Perfluoro-n-butyonic acid (PFBA)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	08/04/2021 13:17	08/05/2021 22:14	WL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	81.5 %	25-150
Surrogate: M5PFHxA	86.1 %	25-150
Surrogate: M4PFHpA	71.6 %	25-150
Surrogate: M3PFHxS	65.0 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic aci	86.7 %	25-150
Surrogate: M6PFDA	75.1 %	25-150
Surrogate: M7PFUdA	58.3 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	77.3 %	25-150
Surrogate: M2PFTeDA	37.2 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic aci	102 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfor	64.6 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic ac	98.6 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfor	51.3 %	10-150
Surrogate: d3-N-MeFOSAA	58.0 %	25-150
Surrogate: d5-N-EtFOSAA	60.7 %	25-150
Surrogate: M2-6:2 FTS	87.2 %	25-200
Surrogate: M2-8:2 FTS	134 %	25-200
Surrogate: M9PFNA	102 %	25-150

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:36	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:36	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:36	CM





Sample Information

Client Sample ID: 414_EP16_8.5

York Sample ID: 21H0134-02

<u>York Project (SDG) No.</u> 21H0134	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 3, 2021 3:30 pm	<u>Date Received</u> 08/03/2021
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:36	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:36	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/04/2021 11:25	08/06/2021 05:36	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:36	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:36	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:36	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:36	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/04/2021 11:25	08/06/2021 05:36	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:36	CM
72-20-8	Endrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:36	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:36	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:36	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:36	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/04/2021 11:25	08/06/2021 05:36	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:36	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:36	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:36	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 05:36	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0352	5	EPA 8081B Certifications:	08/04/2021 11:25	08/06/2021 05:36	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	68.7 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	96.5 %	30-150							



Sample Information

Client Sample ID: 414_EP16_8.5

York Sample ID: 21H0134-02

<u>York Project (SDG) No.</u> 21H0134	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 3, 2021 3:30 pm	<u>Date Received</u> 08/03/2021
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 14:09	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 14:09	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 14:09	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 14:09	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 14:09	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 14:09	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/04/2021 11:25	08/06/2021 14:09	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications:	08/04/2021 11:25	08/06/2021 14:09	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	90.5 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	43.0 %	30-120							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	7250		mg/kg dry	5.39	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM
7440-36-0	Antimony	ND		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.62	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM
7440-39-3	Barium	32.9		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.323	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM
7440-70-2	Calcium	736	B	mg/kg dry	5.39	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM
7440-47-3	Chromium	10.4		mg/kg dry	0.539	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM
7440-48-4	Cobalt	5.54		mg/kg dry	0.431	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM



Sample Information

Client Sample ID: 414_EP16_8.5

York Sample ID: 21H0134-02

<u>York Project (SDG) No.</u> 21H0134	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 3, 2021 3:30 pm	<u>Date Received</u> 08/03/2021
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	8.54		mg/kg dry	2.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM
7439-89-6	Iron	11200		mg/kg dry	27.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM
7439-92-1	Lead	4.01		mg/kg dry	0.539	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM
7439-95-4	Magnesium	2570		mg/kg dry	5.39	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM
7439-96-5	Manganese	381		mg/kg dry	0.539	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM
7440-02-0	Nickel	10.9		mg/kg dry	1.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM
7440-09-7	Potassium	1170		mg/kg dry	5.39	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM
7782-49-2	Selenium	ND		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM
7440-22-4	Silver	ND		mg/kg dry	0.539	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM
7440-23-5	Sodium	96.4		mg/kg dry	53.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM
7440-28-0	Thallium	ND		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM
7440-62-2	Vanadium	13.4		mg/kg dry	1.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM
7440-66-6	Zinc	24.3		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/04/2021 10:33	08/05/2021 13:20	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0323	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	08/05/2021 13:47	08/05/2021 15:42	BR

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.539	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	08/04/2021 13:53	08/04/2021 17:49	ZTS

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: 414_EP16_8.5

York Sample ID: 21H0134-02

<u>York Project (SDG) No.</u> 21H0134	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 3, 2021 3:30 pm	<u>Date Received</u> 08/03/2021
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	10.4		mg/kg	0.500	1	Calculation	08/04/2021 14:27	08/05/2021 15:40	PAM

Certifications:

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.539	1	EPA 9014/9010C	08/04/2021 07:50	08/04/2021 14:41	JAG

Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	92.8		%	0.100	1	SM 2540G	08/04/2021 12:36	08/04/2021 14:46	VR

Certifications: CTDOH





Analytical Batch Summary

Batch ID: BH10153 **Preparation Method:** Analysis Preparation Soil **Prepared By:** JAG

YORK Sample ID	Client Sample ID	Preparation Date
21H0134-01	414_EP11_8.5	08/04/21
21H0134-02	414_EP16_8.5	08/04/21
BH10153-BLK1	Blank	08/04/21
BH10153-DUP1	Duplicate	08/04/21
BH10153-MS1	Matrix Spike	08/04/21
BH10153-SRM1	Reference	08/04/21

Batch ID: BH10168 **Preparation Method:** EPA 3050B **Prepared By:** OT

YORK Sample ID	Client Sample ID	Preparation Date
21H0134-01	414_EP11_8.5	08/04/21
21H0134-02	414_EP16_8.5	08/04/21
BH10168-BLK1	Blank	08/04/21
BH10168-DUP1	Duplicate	08/04/21
BH10168-MS1	Matrix Spike	08/04/21
BH10168-PS1	Post Spike	08/04/21
BH10168-SRM1	Reference	08/04/21

Batch ID: BH10173 **Preparation Method:** EPA 3550C **Prepared By:** SJB

YORK Sample ID	Client Sample ID	Preparation Date
21H0134-01	414_EP11_8.5	08/04/21
21H0134-02	414_EP16_8.5	08/04/21
BH10173-BLK1	Blank	08/04/21
BH10173-BS1	LCS	08/04/21
BH10173-MS1	Matrix Spike	08/04/21
BH10173-MSD1	Matrix Spike Dup	08/04/21

Batch ID: BH10177 **Preparation Method:** EPA 3550C **Prepared By:** MAM

YORK Sample ID	Client Sample ID	Preparation Date
21H0134-01	414_EP11_8.5	08/04/21
21H0134-01	414_EP11_8.5	08/04/21
21H0134-02	414_EP16_8.5	08/04/21
21H0134-02	414_EP16_8.5	08/04/21
BH10177-BLK1	Blank	08/04/21
BH10177-BLK2	Blank	08/04/21
BH10177-BS1	LCS	08/04/21
BH10177-BS2	LCS	08/04/21

Batch ID: BH10182 **Preparation Method:** % Solids Prep **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
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21H0134-01	414_EP11_8.5	08/04/21
21H0134-02	414_EP16_8.5	08/04/21
BH10182-DUP1	Duplicate	08/04/21

Batch ID: BH10192 **Preparation Method:** SPE PFAS Extraction-Soil-EPA 537m **Prepared By:** SG

YORK Sample ID	Client Sample ID	Preparation Date
21H0134-01	414_EP11_8.5	08/04/21
21H0134-02	414_EP16_8.5	08/04/21
BH10192-BLK1	Blank	08/04/21
BH10192-BS1	LCS	08/04/21
BH10192-MS1	Matrix Spike	08/04/21
BH10192-MSD1	Matrix Spike Dup	08/04/21

Batch ID: BH10198 **Preparation Method:** EPA SW846-3060 **Prepared By:** ZTS

YORK Sample ID	Client Sample ID	Preparation Date
21H0134-01	414_EP11_8.5	08/04/21
21H0134-02	414_EP16_8.5	08/04/21
BH10198-BLK1	Blank	08/04/21
BH10198-DUP1	Duplicate	08/04/21
BH10198-MS1	Matrix Spike	08/04/21
BH10198-SRM1	Reference	08/04/21

Batch ID: BH10200 **Preparation Method:** Analysis Preparation **Prepared By:** PAM

YORK Sample ID	Client Sample ID	Preparation Date
21H0134-01	414_EP11_8.5	08/04/21
21H0134-02	414_EP16_8.5	08/04/21

Batch ID: BH10231 **Preparation Method:** EPA 5035A **Prepared By:** LLJ

YORK Sample ID	Client Sample ID	Preparation Date
21H0134-01	414_EP11_8.5	08/04/21
21H0134-02	414_EP16_8.5	08/04/21
BH10231-BLK1	Blank	08/04/21
BH10231-BLK2	Blank	08/04/21
BH10231-BLK3	Blank	08/04/21
BH10231-BLK4	Blank	08/04/21
BH10231-BS1	LCS	08/04/21
BH10231-BS2	LCS	08/04/21
BH10231-BSD1	LCS Dup	08/04/21
BH10231-BSD2	LCS Dup	08/04/21

Batch ID: BH10261 **Preparation Method:** EPA 3546 SVOA **Prepared By:** EMS

YORK Sample ID	Client Sample ID	Preparation Date
21H0134-01	414_EP11_8.5	08/05/21



21H0134-02	414_EP16_8.5	08/05/21
BH10261-BLK1	Blank	08/05/21
BH10261-BS1	LCS	08/05/21

Batch ID: BH10271 **Preparation Method:** EPA 7473 soil **Prepared By:** BR

YORK Sample ID	Client Sample ID	Preparation Date
21H0134-01	414_EP11_8.5	08/05/21
21H0134-02	414_EP16_8.5	08/05/21
BH10271-BLK1	Blank	08/05/21
BH10271-DUP1	Duplicate	08/05/21
BH10271-MS1	Matrix Spike	08/05/21
BH10271-SRM1	Reference	08/05/21



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10231 - EPA 5035A

Blank (BH10231-BLK1)	Blank	Prepared & Analyzed: 08/04/2021									
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10231 - EPA 5035A

Blank (BH10231-BLK1)	Blank	Prepared & Analyzed: 08/04/2021									
n-Butylbenzene	ND	0.0050	mg/kg wet								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
<hr/>											
Surrogate: SURRE: 1,2-Dichloroethane-d4	54.2		ug/L	50.0		108	77-125				
Surrogate: SURRE: Toluene-d8	49.7		"	50.0		99.5	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	50.1		"	50.0		100	76-130				

Blank (BH10231-BLK2)	Blank	Prepared & Analyzed: 08/04/2021									
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	0.0038	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10231 - EPA 5035A

Blank (BH10231-BLK2)	Blank	Prepared & Analyzed: 08/04/2021									
Bromoform	ND	0.0050	mg/kg wet								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								

Surrogate: SURRE: 1,2-Dichloroethane-d4	53.4	ug/L	50.0	107	77-125
Surrogate: SURRE: Toluene-d8	50.3	"	50.0	101	85-120
Surrogate: SURRE: p-Bromofluorobenzene	50.4	"	50.0	101	76-130



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10231 - EPA 5035A											
Blank (BH10231-BLK3)	Holding Blank-21H0140								Prepared & Analyzed: 08/04/2021		
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10231 - EPA 5035A

Blank (BH10231-BLK3) Holding Blank-21H0140		Prepared & Analyzed: 08/04/2021									
n-Propylbenzene	ND	0.0050	mg/kg wet								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
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Surrogate: SURR: 1,2-Dichloroethane-d4	54.1		ug/L	50.0		108	77-125				
Surrogate: SURR: Toluene-d8	50.3		"	50.0		101	85-120				
Surrogate: SURR: p-Bromofluorobenzene	49.9		"	50.0		99.7	76-130				

Blank (BH10231-BLK4) Holding Blank-21H0134		Prepared & Analyzed: 08/04/2021									
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10231 - EPA 5035A

Blank (BH10231-BLK4)	Holding Blank-21H0134		Prepared & Analyzed: 08/04/2021								
Bromomethane	ND	0.0050	mg/kg wet								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
<i>Surrogate: Surr: 1,2-Dichloroethane-d4</i>	53.6		ug/L	50.0		107	77-125				
<i>Surrogate: Surr: Toluene-d8</i>	49.7		"	50.0		99.5	85-120				
<i>Surrogate: Surr: p-Bromofluorobenzene</i>	50.0		"	50.0		100	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					RPD	
Batch BH10231 - EPA 5035A											
LCS (BH10231-BS1)	LCS	Prepared & Analyzed: 08/04/2021									
1,1,1,2-Tetrachloroethane	58.4		ug/L	50.0		117	75-129				
1,1,1-Trichloroethane	61.7		"	50.0		123	71-137				
1,1,2,2-Tetrachloroethane	54.0		"	50.0		108	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	62.2		"	50.0		124	58-146				
1,1,2-Trichloroethane	52.5		"	50.0		105	83-123				
1,1-Dichloroethane	53.0		"	50.0		106	75-130				
1,1-Dichloroethylene	65.6		"	50.0		131	64-137				
1,2,3-Trichlorobenzene	53.6		"	50.0		107	81-140				
1,2,3-Trichloropropane	56.5		"	50.0		113	81-126				
1,2,4-Trichlorobenzene	57.1		"	50.0		114	80-141				
1,2,4-Trimethylbenzene	54.0		"	50.0		108	84-125				
1,2-Dibromo-3-chloropropane	61.6		"	50.0		123	74-142				
1,2-Dibromoethane	54.8		"	50.0		110	86-123				
1,2-Dichlorobenzene	52.2		"	50.0		104	85-122				
1,2-Dichloroethane	56.7		"	50.0		113	71-133				
1,2-Dichloropropane	52.0		"	50.0		104	81-122				
1,3,5-Trimethylbenzene	54.6		"	50.0		109	82-126				
1,3-Dichlorobenzene	52.2		"	50.0		104	84-124				
1,4-Dichlorobenzene	52.9		"	50.0		106	84-124				
1,4-Dioxane	1080		"	1050		103	10-228				
2-Butanone	53.7		"	50.0		107	58-147				
2-Hexanone	53.5		"	50.0		107	70-139				
4-Methyl-2-pentanone	52.3		"	50.0		105	72-132				
Acetone	55.4		"	50.0		111	36-155				
Acrolein	30.4		"	50.0		60.8	10-238				
Acrylonitrile	52.2		"	50.0		104	66-141				
Benzene	53.9		"	50.0		108	77-127				
Bromochloromethane	52.9		"	50.0		106	74-129				
Bromodichloromethane	58.4		"	50.0		117	81-124				
Bromoform	52.2		"	50.0		104	80-136				
Bromomethane	51.4		"	50.0		103	32-177				
Carbon disulfide	70.6		"	50.0		141	10-136		High Bias		
Carbon tetrachloride	58.5		"	50.0		117	66-143				
Chlorobenzene	53.0		"	50.0		106	86-120				
Chloroethane	60.2		"	50.0		120	51-142				
Chloroform	57.3		"	50.0		115	76-131				
Chloromethane	55.5		"	50.0		111	49-132				
cis-1,2-Dichloroethylene	56.5		"	50.0		113	74-132				
cis-1,3-Dichloropropylene	56.4		"	50.0		113	81-129				
Cyclohexane	50.0		"	50.0		99.9	70-130				
Dibromochloromethane	54.2		"	50.0		108	10-200				
Dibromomethane	53.5		"	50.0		107	83-124				
Dichlorodifluoromethane	50.6		"	50.0		101	28-158				
Ethyl Benzene	53.1		"	50.0		106	84-125				
Hexachlorobutadiene	55.3		"	50.0		111	83-133				
Isopropylbenzene	53.5		"	50.0		107	81-127				
Methyl acetate	45.1		"	50.0		90.2	41-143				
Methyl tert-butyl ether (MTBE)	57.3		"	50.0		115	74-131				
Methylcyclohexane	51.4		"	50.0		103	70-130				
Methylene chloride	55.0		"	50.0		110	57-141				
n-Butylbenzene	61.8		"	50.0		124	80-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BH10231 - EPA 5035A												
LCS (BH10231-BS1)	LCS						Prepared & Analyzed: 08/04/2021					
n-Propylbenzene	52.5		ug/L	50.0		105	74-136					
o-Xylene	52.9		"	50.0		106	83-123					
p- & m- Xylenes	108		"	100		108	82-128					
p-Isopropyltoluene	55.8		"	50.0		112	85-125					
sec-Butylbenzene	57.0		"	50.0		114	83-125					
Styrene	53.4		"	50.0		107	86-126					
tert-Butyl alcohol (TBA)	343		"	250		137	70-130	High Bias				
tert-Butylbenzene	54.4		"	50.0		109	80-127					
Tetrachloroethylene	50.6		"	50.0		101	80-129					
Toluene	52.5		"	50.0		105	85-121					
trans-1,2-Dichloroethylene	58.4		"	50.0		117	72-132					
trans-1,3-Dichloropropylene	52.5		"	50.0		105	78-132					
Trichloroethylene	54.7		"	50.0		109	84-123					
Trichlorofluoromethane	68.6		"	50.0		137	62-140					
Vinyl Chloride	45.5		"	50.0		90.9	52-130					
Surrogate: SURR: 1,2-Dichloroethane-d4	53.9		"	50.0		108	77-125					
Surrogate: SURR: Toluene-d8	50.3		"	50.0		101	85-120					
Surrogate: SURR: p-Bromofluorobenzene	49.7		"	50.0		99.4	76-130					
LCS (BH10231-BS2)	LCS						Prepared & Analyzed: 08/04/2021					
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet				75-129					
1,1,1-Trichloroethane	ND	0.0050	"				71-137					
1,1,2,2-Tetrachloroethane	ND	0.0050	"				79-129					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"				58-146					
1,1,2-Trichloroethane	ND	0.0050	"				83-123					
1,1-Dichloroethane	ND	0.0050	"				75-130					
1,1-Dichloroethylene	ND	0.0050	"				64-137					
1,2,3-Trichlorobenzene	ND	0.0050	"				81-140					
1,2,3-Trichloropropane	ND	0.0050	"				81-126					
1,2,4-Trichlorobenzene	ND	0.0050	"				80-141					
1,2,4-Trimethylbenzene	ND	0.0050	"				84-125					
1,2-Dibromo-3-chloropropane	ND	0.0050	"				74-142					
1,2-Dibromoethane	ND	0.0050	"				86-123					
1,2-Dichlorobenzene	ND	0.0050	"				85-122					
1,2-Dichloroethane	ND	0.0050	"				71-133					
1,2-Dichloropropane	ND	0.0050	"				81-122					
1,3,5-Trimethylbenzene	ND	0.0050	"				82-126					
1,3-Dichlorobenzene	ND	0.0050	"				84-124					
1,4-Dichlorobenzene	ND	0.0050	"				84-124					
1,4-Dioxane	ND	0.10	"				10-228					
2-Butanone	ND	0.0050	"				58-147					
2-Hexanone	ND	0.0050	"				70-139					
4-Methyl-2-pentanone	ND	0.0050	"				72-132					
Acetone	ND	0.010	"				36-155					
Acrolein	ND	0.010	"				10-238					
Acrylonitrile	ND	0.0050	"				66-141					
Benzene	ND	0.0050	"				77-127					
Bromochloromethane	ND	0.0050	"				74-129					
Bromodichloromethane	ND	0.0050	"				81-124					
Bromoform	ND	0.0050	"				80-136					
Bromomethane	ND	0.0050	"				32-177					



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BH10231 - EPA 5035A												
LCS (BH10231-BS2)	LCS						Prepared & Analyzed: 08/04/2021					
Carbon disulfide	ND	0.0050	mg/kg wet				10-136					
Carbon tetrachloride	ND	0.0050	"				66-143					
Chlorobenzene	ND	0.0050	"				86-120					
Chloroethane	ND	0.0050	"				51-142					
Chloroform	ND	0.0050	"				76-131					
Chloromethane	ND	0.0050	"				49-132					
cis-1,2-Dichloroethylene	ND	0.0050	"				74-132					
cis-1,3-Dichloropropylene	ND	0.0050	"				81-129					
Cyclohexane	ND	0.0050	"				70-130					
Dibromochloromethane	ND	0.0050	"				10-200					
Dibromomethane	ND	0.0050	"				83-124					
Dichlorodifluoromethane	ND	0.0050	"				28-158					
Ethyl Benzene	ND	0.0050	"				84-125					
Hexachlorobutadiene	ND	0.0050	"				83-133					
Isopropylbenzene	ND	0.0050	"				81-127					
Methyl acetate	ND	0.0050	"				41-143					
Methyl tert-butyl ether (MTBE)	ND	0.0050	"				74-131					
Methylcyclohexane	ND	0.0050	"				70-130					
Methylene chloride	ND	0.010	"				57-141					
n-Butylbenzene	ND	0.0050	"				80-130					
n-Propylbenzene	ND	0.0050	"				74-136					
o-Xylene	ND	0.0050	"				83-123					
p- & m- Xylenes	ND	0.010	"				82-128					
p-Isopropyltoluene	ND	0.0050	"				85-125					
sec-Butylbenzene	ND	0.0050	"				83-125					
Styrene	ND	0.0050	"				86-126					
tert-Butyl alcohol (TBA)	ND	0.0050	"				70-130					
tert-Butylbenzene	ND	0.0050	"				80-127					
Tetrachloroethylene	ND	0.0050	"				80-129					
Toluene	ND	0.0050	"				85-121					
trans-1,2-Dichloroethylene	ND	0.0050	"				72-132					
trans-1,3-Dichloropropylene	ND	0.0050	"				78-132					
Trichloroethylene	ND	0.0050	"				84-123					
Trichlorofluoromethane	ND	0.0050	"				62-140					
Vinyl Chloride	ND	0.0050	"				52-130					
Surrogate: SURR: 1,2-Dichloroethane-d4	50.7		ug/L	50.0		101	77-125					
Surrogate: SURR: Toluene-d8	48.7		"	50.0		97.4	85-120					
Surrogate: SURR: p-Bromofluorobenzene	47.3		"	50.0		94.6	76-130					



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10231 - EPA 5035A											
LCS Dup (BH10231-bsd1)	LCS Dup										Prepared & Analyzed: 08/04/2021
1,1,1,2-Tetrachloroethane	58.4		ug/L	50.0		117	75-129		0.137	30	
1,1,1-Trichloroethane	63.1		"	50.0		126	71-137		2.26	30	
1,1,2-Tetrachloroethane	54.9		"	50.0		110	79-129		1.56	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	64.4		"	50.0		129	58-146		3.47	30	
1,1,2-Trichloroethane	51.4		"	50.0		103	83-123		2.04	30	
1,1-Dichloroethane	53.8		"	50.0		108	75-130		1.54	30	
1,1-Dichloroethylene	67.0		"	50.0		134	64-137		2.13	30	
1,2,3-Trichlorobenzene	53.6		"	50.0		107	81-140		0.0373	30	
1,2,3-Trichloropropane	57.2		"	50.0		114	81-126		1.27	30	
1,2,4-Trichlorobenzene	55.8		"	50.0		112	80-141		2.23	30	
1,2,4-Trimethylbenzene	54.3		"	50.0		109	84-125		0.610	30	
1,2-Dibromo-3-chloropropane	61.7		"	50.0		123	74-142		0.227	30	
1,2-Dibromoethane	54.4		"	50.0		109	86-123		0.696	30	
1,2-Dichlorobenzene	52.6		"	50.0		105	85-122		0.764	30	
1,2-Dichloroethane	57.5		"	50.0		115	71-133		1.38	30	
1,2-Dichloropropane	51.9		"	50.0		104	81-122		0.116	30	
1,3,5-Trimethylbenzene	56.4		"	50.0		113	82-126		3.19	30	
1,3-Dichlorobenzene	53.1		"	50.0		106	84-124		1.67	30	
1,4-Dichlorobenzene	52.6		"	50.0		105	84-124		0.663	30	
1,4-Dioxane	970		"	1050		92.4	10-228		10.5	30	
2-Butanone	55.8		"	50.0		112	58-147		3.85	30	
2-Hexanone	54.9		"	50.0		110	70-139		2.53	30	
4-Methyl-2-pentanone	53.9		"	50.0		108	72-132		3.05	30	
Acetone	58.8		"	50.0		118	36-155		5.92	30	
Acrolein	31.8		"	50.0		63.7	10-238		4.66	30	
Acrylonitrile	54.8		"	50.0		110	66-141		4.81	30	
Benzene	54.8		"	50.0		110	77-127		1.68	30	
Bromochloromethane	51.8		"	50.0		104	74-129		2.14	30	
Bromodichloromethane	58.8		"	50.0		118	81-124		0.682	30	
Bromoform	52.3		"	50.0		105	80-136		0.134	30	
Bromomethane	51.2		"	50.0		102	32-177		0.253	30	
Carbon disulfide	73.8		"	50.0		148	10-136	High Bias	4.36	30	
Carbon tetrachloride	61.9		"	50.0		124	66-143		5.57	30	
Chlorobenzene	53.6		"	50.0		107	86-120		1.12	30	
Chloroethane	65.9		"	50.0		132	51-142		9.00	30	
Chloroform	59.2		"	50.0		118	76-131		3.14	30	
Chloromethane	58.4		"	50.0		117	49-132		5.11	30	
cis-1,2-Dichloroethylene	57.5		"	50.0		115	74-132		1.72	30	
cis-1,3-Dichloropropylene	57.2		"	50.0		114	81-129		1.46	30	
Cyclohexane	50.4		"	50.0		101	70-130		0.937	30	
Dibromochloromethane	54.6		"	50.0		109	10-200		0.699	30	
Dibromomethane	53.2		"	50.0		106	83-124		0.562	30	
Dichlorodifluoromethane	50.7		"	50.0		101	28-158		0.118	30	
Ethyl Benzene	54.6		"	50.0		109	84-125		2.73	30	
Hexachlorobutadiene	58.0		"	50.0		116	83-133		4.66	30	
Isopropylbenzene	55.2		"	50.0		110	81-127		3.00	30	
Methyl acetate	47.6		"	50.0		95.3	41-143		5.41	30	
Methyl tert-butyl ether (MTBE)	56.6		"	50.0		113	74-131		1.19	30	
Methylcyclohexane	52.9		"	50.0		106	70-130		2.95	30	
Methylene chloride	49.1		"	50.0		98.2	57-141		11.3	30	
n-Butylbenzene	62.7		"	50.0		125	80-130		1.43	30	



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10231 - EPA 5035A											
LCS Dup (BH10231-bsd1) LCS Dup		Prepared & Analyzed: 08/04/2021									
n-Propylbenzene	53.9		ug/L	50.0		108	74-136		2.71	30	
o-Xylene	53.2		"	50.0		106	83-123		0.546	30	
p- & m- Xylenes	109		"	100		109	82-128		0.451	30	
p-Isopropyltoluene	56.9		"	50.0		114	85-125		1.90	30	
sec-Butylbenzene	58.0		"	50.0		116	83-125		1.79	30	
Styrene	53.8		"	50.0		108	86-126		0.765	30	
tert-Butyl alcohol (TBA)	379		"	250		152	70-130	High Bias	10.1	30	
tert-Butylbenzene	55.4		"	50.0		111	80-127		1.82	30	
Tetrachloroethylene	52.1		"	50.0		104	80-129		2.96	30	
Toluene	54.6		"	50.0		109	85-121		3.90	30	
trans-1,2-Dichloroethylene	59.3		"	50.0		119	72-132		1.51	30	
trans-1,3-Dichloropropylene	52.3		"	50.0		105	78-132		0.305	30	
Trichloroethylene	57.0		"	50.0		114	84-123		4.03	30	
Trichlorofluoromethane	71.6		"	50.0		143	62-140	High Bias	4.29	30	
Vinyl Chloride	46.9		"	50.0		93.8	52-130		3.08	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	53.3		"	50.0		107	77-125				
Surrogate: SURR: Toluene-d8	50.4		"	50.0		101	85-120				
Surrogate: SURR: p-Bromofluorobenzene	49.5		"	50.0		99.0	76-130				
LCS Dup (BH10231-bsd2) LCS Dup		Prepared & Analyzed: 08/04/2021									
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet				75-129			30	
1,1,1-Trichloroethane	ND	0.0050	"				71-137			30	
1,1,2,2-Tetrachloroethane	ND	0.0050	"				79-129			30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"				58-146			30	
1,1,2-Trichloroethane	ND	0.0050	"				83-123			30	
1,1-Dichloroethane	ND	0.0050	"				75-130			30	
1,1-Dichloroethylene	ND	0.0050	"				64-137			30	
1,2,3-Trichlorobenzene	ND	0.0050	"				81-140			30	
1,2,3-Trichloropropane	ND	0.0050	"				81-126			30	
1,2,4-Trichlorobenzene	ND	0.0050	"				80-141			30	
1,2,4-Trimethylbenzene	ND	0.0050	"				84-125			30	
1,2-Dibromo-3-chloropropane	ND	0.0050	"				74-142			30	
1,2-Dibromoethane	ND	0.0050	"				86-123			30	
1,2-Dichlorobenzene	ND	0.0050	"				85-122			30	
1,2-Dichloroethane	ND	0.0050	"				71-133			30	
1,2-Dichloropropane	ND	0.0050	"				81-122			30	
1,3,5-Trimethylbenzene	ND	0.0050	"				82-126			30	
1,3-Dichlorobenzene	ND	0.0050	"				84-124			30	
1,4-Dichlorobenzene	ND	0.0050	"				84-124			30	
1,4-Dioxane	ND	0.10	"				10-228			30	
2-Butanone	ND	0.0050	"				58-147			30	
2-Hexanone	ND	0.0050	"				70-139			30	
4-Methyl-2-pentanone	ND	0.0050	"				72-132			30	
Acetone	ND	0.010	"				36-155			30	
Acrolein	ND	0.010	"				10-238			30	
Acrylonitrile	ND	0.0050	"				66-141			30	
Benzene	ND	0.0050	"				77-127			30	
Bromochloromethane	ND	0.0050	"				74-129			30	
Bromodichloromethane	ND	0.0050	"				81-124			30	
Bromoform	ND	0.0050	"				80-136			30	
Bromomethane	ND	0.0050	"				32-177			30	



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10231 - EPA 5035A											
LCS Dup (BH10231-bsd2)	LCS Dup	Prepared & Analyzed: 08/04/2021									
Carbon disulfide	ND	0.0050	mg/kg wet				10-136				30
Carbon tetrachloride	ND	0.0050	"				66-143				30
Chlorobenzene	ND	0.0050	"				86-120				30
Chloroethane	ND	0.0050	"				51-142				30
Chloroform	ND	0.0050	"				76-131				30
Chloromethane	ND	0.0050	"				49-132				30
cis-1,2-Dichloroethylene	ND	0.0050	"				74-132				30
cis-1,3-Dichloropropylene	ND	0.0050	"				81-129				30
Cyclohexane	ND	0.0050	"				70-130				30
Dibromochloromethane	ND	0.0050	"				10-200				30
Dibromomethane	ND	0.0050	"				83-124				30
Dichlorodifluoromethane	ND	0.0050	"				28-158				30
Ethyl Benzene	ND	0.0050	"				84-125				30
Hexachlorobutadiene	ND	0.0050	"				83-133				30
Isopropylbenzene	ND	0.0050	"				81-127				30
Methyl acetate	ND	0.0050	"				41-143				30
Methyl tert-butyl ether (MTBE)	ND	0.0050	"				74-131				30
Methylcyclohexane	ND	0.0050	"				70-130				30
Methylene chloride	ND	0.010	"				57-141				30
n-Butylbenzene	ND	0.0050	"				80-130				30
n-Propylbenzene	ND	0.0050	"				74-136				30
o-Xylene	ND	0.0050	"				83-123				30
p- & m- Xylenes	ND	0.010	"				82-128				30
p-Isopropyltoluene	ND	0.0050	"				85-125				30
sec-Butylbenzene	ND	0.0050	"				83-125				30
Styrene	ND	0.0050	"				86-126				30
tert-Butyl alcohol (TBA)	ND	0.0050	"				70-130				30
tert-Butylbenzene	ND	0.0050	"				80-127				30
Tetrachloroethylene	ND	0.0050	"				80-129				30
Toluene	ND	0.0050	"				85-121				30
trans-1,2-Dichloroethylene	ND	0.0050	"				72-132				30
trans-1,3-Dichloropropylene	ND	0.0050	"				78-132				30
Trichloroethylene	ND	0.0050	"				84-123				30
Trichlorofluoromethane	ND	0.0050	"				62-140				30
Vinyl Chloride	ND	0.0050	"				52-130				30
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>50.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>101</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>49.0</i>		<i>"</i>	<i>50.0</i>		<i>98.0</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>46.5</i>		<i>"</i>	<i>50.0</i>		<i>93.0</i>	<i>76-130</i>				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10261 - EPA 3546 SVOA

Blank (BH10261-BLK1) Blank Prepared: 08/05/2021 Analyzed: 08/06/2021

1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								
Caprolactam	ND	0.0830	"								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								



Semivolatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10261 - EPA 3546 SVOA

Blank (BH10261-BLK1)	Blank										
											Prepared: 08/05/2021 Analyzed: 08/06/2021
Dibenzofuran	ND	0.0416	mg/kg wet								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Pyridine	ND	0.166	"								
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Surrogate: SURR: 2-Fluorophenol	1.20		"	1.66		72.3	20-108				
Surrogate: SURR: Phenol-d5	1.12		"	1.66		67.6	23-114				
Surrogate: SURR: Nitrobenzene-d5	0.609		"	0.831		73.4	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	0.630		"	0.831		75.8	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1.32		"	1.66		79.3	19-110				
Surrogate: SURR: Terphenyl-d14	0.666		"	0.831		80.2	24-116				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BH10261 - EPA 3546 SVOA												
LCS (BH10261-BS1)	LCS						Prepared: 08/05/2021 Analyzed: 08/06/2021					
1,1-Biphenyl	0.733	0.0416	mg/kg wet	0.831		88.2	18-111					
1,2,4,5-Tetrachlorobenzene	0.831	0.0830	"	0.831		100	21-131					
1,2-Diphenylhydrazine (as Azobenzene)	0.607	0.0416	"	0.831		73.1	17-137					
2,3,4,6-Tetrachlorophenol	0.774	0.0830	"	0.831		93.2	30-130					
2,4,5-Trichlorophenol	0.779	0.0416	"	0.831		93.8	27-118					
2,4,6-Trichlorophenol	0.795	0.0416	"	0.831		95.8	31-120					
2,4-Dichlorophenol	0.804	0.0416	"	0.831		96.8	20-127					
2,4-Dimethylphenol	0.841	0.0416	"	0.831		101	14-132					
2,4-Dinitrophenol	0.233	0.0830	"	0.831		28.1	10-171					
2,4-Dinitrotoluene	0.797	0.0416	"	0.831		96.0	34-131					
2,6-Dinitrotoluene	0.828	0.0416	"	0.831		99.7	31-128					
2-Chloronaphthalene	0.707	0.0416	"	0.831		85.1	31-117					
2-Chlorophenol	0.697	0.0416	"	0.831		84.0	33-113					
2-Methylnaphthalene	0.816	0.0416	"	0.831		98.2	12-138					
2-Methylphenol	0.700	0.0416	"	0.831		84.3	10-136					
2-Nitroaniline	0.763	0.0830	"	0.831		91.8	27-132					
2-Nitrophenol	0.966	0.0416	"	0.831		116	17-129					
3- & 4-Methylphenols	0.620	0.0416	"	0.831		74.6	29-103					
3,3-Dichlorobenzidine	1.58	0.0416	"	0.831		190	22-149	High Bias				
3-Nitroaniline	0.677	0.0830	"	0.831		81.5	20-133					
4,6-Dinitro-2-methylphenol	0.612	0.0830	"	0.831		73.7	10-143					
4-Bromophenyl phenyl ether	0.776	0.0416	"	0.831		93.4	29-120					
4-Chloro-3-methylphenol	0.839	0.0416	"	0.831		101	24-129					
4-Chloroaniline	0.616	0.0416	"	0.831		74.2	10-132					
4-Chlorophenyl phenyl ether	0.749	0.0416	"	0.831		90.1	27-124					
4-Nitroaniline	0.752	0.0830	"	0.831		90.5	16-128					
4-Nitrophenol	0.738	0.0830	"	0.831		88.8	10-141					
Acenaphthene	0.726	0.0416	"	0.831		87.4	30-121					
Acenaphthylene	0.693	0.0416	"	0.831		83.4	30-115					
Acetophenone	0.744	0.0416	"	0.831		89.5	20-112					
Aniline	0.662	0.166	"	0.831		79.7	10-119					
Anthracene	0.769	0.0416	"	0.831		92.6	34-118					
Atrazine	0.899	0.0416	"	0.831		108	26-112					
Benzaldehyde	0.729	0.0416	"	0.831		87.8	21-100					
Benzo(a)anthracene	0.804	0.0416	"	0.831		96.8	32-122					
Benzo(a)pyrene	0.878	0.0416	"	0.831		106	29-133					
Benzo(b)fluoranthene	0.819	0.0416	"	0.831		98.6	25-133					
Benzo(g,h,i)perylene	0.813	0.0416	"	0.831		97.8	10-143					
Benzo(k)fluoranthene	0.749	0.0416	"	0.831		90.2	25-128					
Benzoic acid	0.151	0.0416	"	0.831		18.2	10-140					
Benzyl alcohol	0.690	0.0416	"	0.831		83.0	30-115					
Benzyl butyl phthalate	0.847	0.0416	"	0.831		102	26-126					
Bis(2-chloroethoxy)methane	0.759	0.0416	"	0.831		91.4	19-132					
Bis(2-chloroethyl)ether	0.615	0.0416	"	0.831		74.0	19-125					
Bis(2-chloroisopropyl)ether	0.615	0.0416	"	0.831		74.0	20-135					
Bis(2-ethylhexyl)phthalate	0.900	0.0416	"	0.831		108	10-155					
Caprolactam	0.938	0.0830	"	0.831		113	10-127					
Carbazole	0.738	0.0416	"	0.831		88.8	35-123					
Chrysene	0.745	0.0416	"	0.831		89.7	32-123					
Dibenzo(a,h)anthracene	0.914	0.0416	"	0.831		110	10-136					
Dibenzofuran	0.706	0.0416	"	0.831		85.0	29-121					



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10261 - EPA 3546 SVOA

LCS (BH10261-BS1)	LCS	Prepared: 08/05/2021 Analyzed: 08/06/2021									
Diethyl phthalate	0.747	0.0416	mg/kg wet	0.831		90.0	34-116				
Dimethyl phthalate	0.734	0.0416	"	0.831		88.4	35-124				
Di-n-butyl phthalate	0.785	0.0416	"	0.831		94.5	31-116				
Di-n-octyl phthalate	1.10	0.0416	"	0.831		133	26-136				
Diphenylamine	0.851	0.0830	"	0.831		102	40-140				
Fluoranthene	0.787	0.0416	"	0.831		94.8	33-122				
Fluorene	0.727	0.0416	"	0.831		87.5	29-123				
Hexachlorobenzene	0.665	0.0416	"	0.831		80.0	21-124				
Hexachlorobutadiene	0.821	0.0416	"	0.831		98.8	10-149				
Hexachlorocyclopentadiene	0.742	0.0416	"	0.831		89.4	10-129				
Hexachloroethane	0.674	0.0416	"	0.831		81.1	28-108				
Indeno(1,2,3-cd)pyrene	0.966	0.0416	"	0.831		116	10-135				
Isophorone	0.769	0.0416	"	0.831		92.6	20-132				
Naphthalene	0.738	0.0416	"	0.831		88.8	23-124				
Nitrobenzene	0.735	0.0416	"	0.831		88.5	13-132				
N-Nitrosodimethylamine	0.790	0.0416	"	0.831		95.1	11-129				
N-nitroso-di-n-propylamine	0.641	0.0416	"	0.831		77.2	24-119				
N-Nitrosodiphenylamine	0.831	0.0416	"	0.831		100	22-152				
Pentachlorophenol	0.596	0.0416	"	0.831		71.8	10-139				
Phenanthrene	0.706	0.0416	"	0.831		85.0	33-123				
Phenol	0.693	0.0416	"	0.831		83.4	23-115				
Pyrene	0.720	0.0416	"	0.831		86.6	24-130				
Pyridine	0.656	0.166	"	0.831		79.0	10-91				
Surrogate: SURR: 2-Fluorophenol	1.42		"	1.66		85.8	20-108				
Surrogate: SURR: Phenol-d5	1.32		"	1.66		79.4	23-114				
Surrogate: SURR: Nitrobenzene-d5	0.767		"	0.831		92.3	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	0.731		"	0.831		88.0	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1.88		"	1.66		113	19-110				
Surrogate: SURR: Terphenyl-d14	0.812		"	0.831		97.8	24-116				



Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BH10173 - EPA 3550C												
Blank (BH10173-BLK1)	Blank										Prepared: 08/04/2021 Analyzed: 08/05/2021	
1,4-Dioxane	ND	19.8	ug/kg									
Surrogate: 1,4-Dioxane-d8	287		"	495		58.0	39-127.5					
LCS (BH10173-BS1)	LCS										Prepared: 08/04/2021 Analyzed: 08/05/2021	
1,4-Dioxane	572	19.8	ug/kg	495		116	40-130					
Surrogate: 1,4-Dioxane-d8	317		"	495		64.0	39-127.5					
Matrix Spike (BH10173-MS1)	Matrix Spike	*Source sample: 21G1176-03 (Matrix Spike)										Prepared: 08/04/2021 Analyzed: 08/05/2021
1,4-Dioxane	552	19.8	ug/kg	495	ND	112	40-130					
Surrogate: 1,4-Dioxane-d8	257		"	495		52.0	40-130					
Matrix Spike Dup (BH10173-MS1)	Matrix Spike Dup	*Source sample: 21G1176-03 (Matrix Spike Dup)										Prepared: 08/04/2021 Analyzed: 08/05/2021
1,4-Dioxane	581	19.8	ug/kg	495	ND	117	40-130		5.07	30		
Surrogate: 1,4-Dioxane-d8	228		"	495		46.0	40-130					



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10192 - SPE PFAS Extraction-Soil-EPA 537m											
Blank (BH10192-BLK1) Blank										Prepared: 08/04/2021 Analyzed: 08/05/2021	
Perfluorobutanesulfonic acid (PFBS)	ND	0.231	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.231	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.231	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.231	"								
Perfluorooctanoic acid (PFOA)	ND	0.231	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.231	"								
Perfluorononanoic acid (PFNA)	ND	0.231	"								
Perfluorodecanoic acid (PFDA)	ND	0.231	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.231	"								
Perfluorododecanoic acid (PFDoA)	ND	0.231	"								
Perfluorotridecanoic acid (PFTriDA)	ND	0.231	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.231	"								
N-MeFOSAA	ND	0.231	"								
N-EtFOSAA	ND	0.231	"								
Perfluoropentanoic acid (PFPeA)	ND	0.231	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.231	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.231	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.231	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	ND	0.231	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	ND	0.231	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.231	"								
Surrogate: M3PFBS	3.56		"	4.30		82.7	25-150				
Surrogate: M5PFHxA	4.02		"	4.63		86.9	25-150				
Surrogate: M4PFHpA	3.72		"	4.63		80.5	25-150				
Surrogate: M3PFHxS	3.42		"	4.38		78.1	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.40		"	4.63		95.1	25-150				
Surrogate: M6PFDA	4.10		"	4.63		88.5	25-150				
Surrogate: M7PFUdA	3.80		"	4.63		82.1	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	3.72		"	4.63		80.5	25-150				
Surrogate: M2PFTeDA	2.10		"	4.63		45.5	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	4.21		"	4.63		91.0	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.07		"	4.43		69.3	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.36		"	4.63		94.3	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.32		"	4.63		71.9	10-150				
Surrogate: d3-N-MeFOSAA	4.36		"	4.63		94.2	25-150				
Surrogate: d5-N-EtFOSAA	4.85		"	4.63		105	25-150				
Surrogate: M2-6:2 FTS	4.44		"	4.39		101	25-200				
Surrogate: M2-8:2 FTS	6.12		"	4.43		138	25-200				
Surrogate: M9PFNA	4.72		"	4.63		102	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10192 - SPE PFAS Extraction-Soil-EPA 537m											
LCS (BH10192-BS1)	LCS	Prepared: 08/04/2021 Analyzed: 08/05/2021									
Perfluorobutanesulfonic acid (PFBS)	4.61	0.241	ug/kg wet	4.27		108	50-130				
Perfluorohexanoic acid (PFHxA)	5.02	0.241	"	4.83		104	50-130				
Perfluoroheptanoic acid (PFHpA)	5.66	0.241	"	4.83		117	50-130				
Perfluorohexanesulfonic acid (PFHxS)	4.81	0.241	"	4.40		109	50-130				
Perfluorooctanoic acid (PFOA)	5.17	0.241	"	4.83		107	50-130				
Perfluorooctanesulfonic acid (PFOS)	5.09	0.241	"	4.47		114	50-130				
Perfluorononanoic acid (PFNA)	4.52	0.241	"	4.83		93.6	50-130				
Perfluorodecanoic acid (PFDA)	5.24	0.241	"	4.83		109	50-130				
Perfluoroundecanoic acid (PFUnA)	4.92	0.241	"	4.83		102	50-130				
Perfluorododecanoic acid (PFDoA)	4.95	0.241	"	4.83		103	50-130				
Perfluorotridecanoic acid (PFTrDA)	4.45	0.241	"	4.83		92.2	50-130				
Perfluorotetradecanoic acid (PFTA)	5.31	0.241	"	4.83		110	50-130				
N-MeFOSAA	4.88	0.241	"	4.83		101	50-130				
N-EtFOSAA	5.03	0.241	"	4.83		104	50-130				
Perfluoropentanoic acid (PFPeA)	4.72	0.241	"	4.83		97.9	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	4.72	0.241	"	4.83		97.9	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	6.06	0.241	"	4.58		132	50-130	High Bias			
Perfluoro-1-decanesulfonic acid (PFDS)	4.89	0.241	"	4.66		105	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	8.98	0.241	"	4.58		196	50-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	11.4	0.241	"	4.63		246	50-200	High Bias			
Perfluoro-n-butanoic acid (PFBA)	5.18	0.241	"	4.83		107	50-130				
Surrogate: M3PFBS	3.45		"	4.48		76.9	25-150				
Surrogate: M5PFHxA	4.03		"	4.83		83.5	25-150				
Surrogate: M4PFHpA	3.61		"	4.83		74.9	25-150				
Surrogate: M3PFHxS	3.40		"	4.57		74.4	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.21		"	4.83		87.3	25-150				
Surrogate: M6PFDA	4.01		"	4.83		83.1	25-150				
Surrogate: M7PFUdA	3.67		"	4.83		76.0	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	3.78		"	4.83		78.3	25-150				
Surrogate: M2PFTeDA	2.31		"	4.83		47.8	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	4.12		"	4.83		85.5	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.00		"	4.62		64.9	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.34		"	4.83		90.0	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.48		"	4.83		72.1	10-150				
Surrogate: d3-N-MeFOSAA	4.97		"	4.83		103	25-150				
Surrogate: d5-N-EtFOSAA	4.70		"	4.83		97.4	25-150				
Surrogate: M2-6:2 FTS	6.48		"	4.58		142	25-200				
Surrogate: M2-8:2 FTS	9.56		"	4.62		207	25-200				
Surrogate: M9PFNA	4.42		"	4.83		91.6	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BH10192 - SPE PFAS Extraction-Soil-EPA 537m												
Matrix Spike (BH10192-MS1)	Matrix Spike	*Source sample: 21H0015-04 (Matrix Spike)						Prepared: 08/04/2021 Analyzed: 08/05/2021				
Perfluorobutanesulfonic acid (PFBS)	4.79	0.275	ug/kg dry	4.87	ND	98.5	25-150					
Perfluorohexanoic acid (PFHxA)	5.65	0.275	"	5.50	ND	103	25-150					
Perfluoroheptanoic acid (PFHpA)	6.09	0.275	"	5.50	ND	111	25-150					
Perfluorohexanesulfonic acid (PFHxS)	5.05	0.275	"	5.02	ND	101	25-150					
Perfluorooctanoic acid (PFOA)	5.46	0.275	"	5.50	ND	99.3	25-150					
Perfluorooctanesulfonic acid (PFOS)	5.24	0.275	"	5.09	ND	103	25-150					
Perfluorononanoic acid (PFNA)	4.80	0.275	"	5.50	ND	87.4	25-150					
Perfluorodecanoic acid (PFDA)	5.26	0.275	"	5.50	ND	95.6	25-150					
Perfluoroundecanoic acid (PFUnA)	4.65	0.275	"	5.50	ND	84.5	25-150					
Perfluorododecanoic acid (PFDoA)	4.96	0.275	"	5.50	ND	90.2	25-150					
Perfluorotridecanoic acid (PFTriDA)	4.75	0.275	"	5.50	ND	86.4	25-150					
Perfluorotetradecanoic acid (PFTA)	5.29	0.275	"	5.50	ND	96.3	25-150					
N-MeFOSAA	4.97	0.275	"	5.50	ND	90.3	25-150					
N-EtFOSAA	5.08	0.275	"	5.50	ND	92.4	25-150					
Perfluoropentanoic acid (PFPeA)	4.87	0.275	"	5.50	ND	88.6	25-150					
Perfluoro-1-octanesulfonamide (FOSA)	5.04	0.275	"	5.50	ND	91.7	25-150					
Perfluoro-1-heptanesulfonic acid (PFHpS)	6.35	0.275	"	5.22	ND	121	25-150					
Perfluoro-1-decanesulfonic acid (PFDS)	4.54	0.275	"	5.31	ND	85.5	25-150					
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	10.5	0.275	"	5.22	ND	201	25-200	High Bias				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	11.3	0.275	"	5.28	0.0400	214	25-200	High Bias				
Perfluoro-n-butanoic acid (PFBA)	5.40	0.275	"	5.50	ND	98.1	25-150					
<i>Surrogate: M3PFBS</i>	4.10		"	5.11		80.2	25-150					
<i>Surrogate: M5PFHxA</i>	4.65		"	5.50		84.6	25-150					
<i>Surrogate: M4PFHpA</i>	4.30		"	5.50		78.1	25-150					
<i>Surrogate: M3PFHxS</i>	3.91		"	5.20		75.1	25-150					
<i>Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)</i>	5.02		"	5.50		91.3	25-150					
<i>Surrogate: M6PFDA</i>	5.00		"	5.50		91.0	25-150					
<i>Surrogate: M7PFUdA</i>	4.49		"	5.50		81.7	25-150					
<i>Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)</i>	4.38		"	5.50		79.6	25-150					
<i>Surrogate: M2PFTeDA</i>	2.82		"	5.50		51.2	10-150					
<i>Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)</i>	5.46		"	5.50		99.3	25-150					
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)</i>	3.49		"	5.26		66.3	25-150					
<i>Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)</i>	5.42		"	5.50		98.5	25-150					
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)</i>	3.36		"	5.50		61.2	10-150					
<i>Surrogate: d3-N-MeFOSAA</i>	4.56		"	5.50		82.9	25-150					
<i>Surrogate: d5-N-EtFOSAA</i>	5.03		"	5.50		91.4	25-150					
<i>Surrogate: M2-6:2 FTS</i>	6.54		"	5.22		125	25-200					
<i>Surrogate: M2-8:2 FTS</i>	10.4		"	5.27		197	25-200					
<i>Surrogate: M9PFNA</i>	5.51		"	5.50		100	25-150					



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10192 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike Dup (BH10192-1 Matrix Spike Dup) Source sample: 21H0015-04 (Matrix Spike Dup)						Prepared: 08/04/2021 Analyzed: 08/05/2021					
Perfluorobutanesulfonic acid (PFBS)	4.28	0.270	ug/kg dry	4.77	ND	89.7	25-150		11.3	35	
Perfluorohexanoic acid (PFHxA)	4.98	0.270	"	5.39	ND	92.4	25-150		12.5	35	
Perfluoroheptanoic acid (PFHpA)	5.40	0.270	"	5.39	ND	100	25-150		12.1	35	
Perfluorohexanesulfonic acid (PFHxS)	4.65	0.270	"	4.92	ND	94.5	25-150		8.26	35	
Perfluorooctanoic acid (PFOA)	4.75	0.270	"	5.39	ND	88.2	25-150		13.8	35	
Perfluorooctanesulfonic acid (PFOS)	4.78	0.270	"	4.99	ND	95.7	25-150		9.20	35	
Perfluorononanoic acid (PFNA)	4.15	0.270	"	5.39	ND	77.0	25-150		14.6	35	
Perfluorodecanoic acid (PFDA)	4.59	0.270	"	5.39	ND	85.1	25-150		13.6	35	
Perfluoroundecanoic acid (PFUnA)	4.41	0.270	"	5.39	ND	81.7	25-150		5.30	35	
Perfluorododecanoic acid (PFDoA)	4.47	0.270	"	5.39	ND	82.9	25-150		10.4	35	
Perfluorotridecanoic acid (PFTriDA)	4.06	0.270	"	5.39	ND	75.2	25-150		15.8	35	
Perfluorotetradecanoic acid (PFTA)	4.75	0.270	"	5.39	ND	88.1	25-150		10.8	35	
N-MeFOSAA	4.31	0.270	"	5.39	ND	79.9	25-150		14.2	35	
N-EtFOSAA	4.39	0.270	"	5.39	ND	81.4	25-150		14.7	35	
Perfluoropentanoic acid (PFPeA)	4.46	0.270	"	5.39	ND	82.6	25-150		8.89	35	
Perfluoro-1-octanesulfonamide (FOSA)	5.03	0.270	"	5.39	ND	93.2	25-150		0.350	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.64	0.270	"	5.12	ND	110	25-150		11.7	35	
Perfluoro-1-decanesulfonic acid (PFDS)	4.36	0.270	"	5.20	ND	83.7	25-150		4.08	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	9.04	0.270	"	5.12	ND	176	25-200		15.0	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	11.7	0.270	"	5.18	0.0400	225	25-200	High Bias	3.31	35	
Perfluoro-n-butanoic acid (PFBA)	4.95	0.270	"	5.39	ND	91.7	25-150		8.67	35	
Surrogate: M3PFBS	4.44		"	5.01		88.6	25-150				
Surrogate: M5PFHxA	5.14		"	5.39		95.3	25-150				
Surrogate: M4PFHpA	4.71		"	5.39		87.4	25-150				
Surrogate: M3PFHxS	4.07		"	5.10		79.7	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	5.55		"	5.39		103	25-150				
Surrogate: M6PFDA	5.68		"	5.39		105	25-150				
Surrogate: M7PFUdA	4.70		"	5.39		87.2	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	5.00		"	5.39		92.8	25-150				
Surrogate: M2PFTeDA	3.31		"	5.39		61.4	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	5.77		"	5.39		107	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.69		"	5.16		71.5	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.85		"	5.39		108	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.43		"	5.39		63.6	10-150				
Surrogate: d3-N-MeFOSAA	4.94		"	5.39		91.6	25-150				
Surrogate: d5-N-EtFOSAA	5.76		"	5.39		107	25-150				
Surrogate: M2-6:2 FTS	7.48		"	5.12		146	25-200				
Surrogate: M2-8:2 FTS	9.90		"	5.17		192	25-200				
Surrogate: M9PFNA	5.96		"	5.39		110	25-150				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10177 - EPA 3550C

Blank (BH10177-BLK1)	Blank	Prepared: 08/04/2021 Analyzed: 08/05/2021									
4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								

Surrogate: Decachlorobiphenyl	0.0417		"	0.0664		62.8	30-150				
Surrogate: Tetrachloro-m-xylene	0.0565		"	0.0664		85.1	30-150				

LCS (BH10177-BS1)	LCS	Prepared: 08/04/2021 Analyzed: 08/05/2021									
4,4'-DDD	0.0269	0.00164	mg/kg wet	0.0332		80.9	40-140				
4,4'-DDE	0.0188	0.00164	"	0.0332		56.6	40-140				
4,4'-DDT	0.0234	0.00164	"	0.0332		70.6	40-140				
Aldrin	0.0334	0.00164	"	0.0332		100	40-140				
alpha-BHC	0.0302	0.00164	"	0.0332		90.9	40-140				
alpha-Chlordane	0.0329	0.00164	"	0.0332		99.2	40-140				
beta-BHC	0.0318	0.00164	"	0.0332		95.7	40-140				
delta-BHC	0.0275	0.00164	"	0.0332		82.8	40-140				
Dieldrin	0.0348	0.00164	"	0.0332		105	40-140				
Endosulfan I	0.0406	0.00164	"	0.0332		122	40-140				
Endosulfan II	0.0371	0.00164	"	0.0332		112	40-140				
Endosulfan sulfate	0.0281	0.00164	"	0.0332		84.5	40-140				
Endrin	0.0290	0.00164	"	0.0332		87.4	40-140				
Endrin aldehyde	0.0262	0.00164	"	0.0332		78.9	40-140				
Endrin ketone	0.0310	0.00164	"	0.0332		93.3	40-140				
gamma-BHC (Lindane)	0.0307	0.00164	"	0.0332		92.5	40-140				
gamma-Chlordane	0.0334	0.00164	"	0.0332		101	40-140				
Heptachlor	0.0385	0.00164	"	0.0332		116	40-140				
Heptachlor epoxide	0.0348	0.00164	"	0.0332		105	40-140				
Methoxychlor	0.0159	0.00164	"	0.0332		47.9	40-140				

Surrogate: Decachlorobiphenyl	0.0554		"	0.0664		83.3	30-150				
Surrogate: Tetrachloro-m-xylene	0.0666		"	0.0664		100	30-150				



Polychlorinated Biphenyls by GC/ECD - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BH10177 - EPA 3550C												
Blank (BH10177-BLK2)	Blank								Prepared: 08/04/2021 Analyzed: 08/06/2021			
Aroclor 1016	ND	0.0166	mg/kg wet									
Aroclor 1221	ND	0.0166	"									
Aroclor 1232	ND	0.0166	"									
Aroclor 1242	ND	0.0166	"									
Aroclor 1248	ND	0.0166	"									
Aroclor 1254	ND	0.0166	"									
Aroclor 1260	ND	0.0166	"									
Total PCBs	ND	0.0166	"									
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0591		"	0.0664		89.0	30-120					
<i>Surrogate: Decachlorobiphenyl</i>	0.0475		"	0.0664		71.5	30-120					
LCS (BH10177-BS2)	LCS								Prepared: 08/04/2021 Analyzed: 08/06/2021			
Aroclor 1016	0.311	0.0166	mg/kg wet	0.332		93.5	40-130					
Aroclor 1260	0.306	0.0166	"	0.332		92.2	40-130					
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0561		"	0.0664		84.5	30-120					
<i>Surrogate: Decachlorobiphenyl</i>	0.0452		"	0.0664		68.0	30-120					
Batch Y1H0547 - BH10177												
Aroclor Reference (Y1H0547- Aroclor Reference)									Prepared & Analyzed: 08/05/2021			
<i>Surrogate: Tetrachloro-m-xylene</i>	0.183		ug/mL	0.200		91.5						
<i>Surrogate: Decachlorobiphenyl</i>	0.175		"	0.200		87.5						



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10168 - EPA 3050B

Blank (BH10168-BLK1)	Blank	Prepared: 08/04/2021 Analyzed: 08/05/2021									
Aluminum	ND	5.00	mg/kg wet								
Antimony	ND	2.50	"								
Arsenic	ND	1.50	"								
Barium	ND	2.50	"								
Beryllium	ND	0.050	"								
Cadmium	ND	0.300	"								
Calcium	5.62	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.400	"								
Copper	ND	2.00	"								
Iron	ND	25.0	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	1.00	"								
Potassium	ND	5.00	"								
Selenium	ND	2.50	"								
Silver	ND	0.500	"								
Sodium	ND	50.0	"								
Thallium	ND	2.50	"								
Vanadium	ND	1.00	"								
Zinc	ND	2.50	"								

Duplicate (BH10168-DUP1)	Duplicate	*Source sample: 21H0142-01 (Duplicate) Prepared: 08/04/2021 Analyzed: 08/05/2021									
Aluminum	2970	5.00	mg/kg wet		3020				1.50	35	
Antimony	ND	2.50	"		ND					35	
Arsenic	1.77	1.50	"		ND					35	
Barium	11.8	2.50	"		10.9			8.00		35	
Beryllium	ND	0.050	"		ND					35	
Cadmium	ND	0.300	"		ND					35	
Calcium	169	5.00	"		161			4.96		35	
Chromium	3.74	0.500	"		4.21			11.9		35	
Cobalt	2.23	0.400	"		2.27			1.78		35	
Copper	3.40	2.00	"		3.52			3.73		35	
Iron	9200	25.0	"		6120			40.1		35	Non-dir.
Lead	1.74	0.500	"		1.36			24.6		35	
Magnesium	294	5.00	"		328			10.9		35	
Manganese	108	0.500	"		82.9			26.1		35	
Nickel	3.21	1.00	"		3.00			6.88		35	
Potassium	212	5.00	"		254			17.9		35	
Selenium	ND	2.50	"		ND					35	
Silver	ND	0.500	"		ND					35	
Sodium	ND	50.0	"		ND					35	
Thallium	ND	2.50	"		ND					35	
Vanadium	4.98	1.00	"		4.41			12.3		35	
Zinc	8.08	2.50	"		6.05			28.7		35	



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10168 - EPA 3050B

Matrix Spike (BH10168-MS1)	Matrix Spike	*Source sample: 21H0142-01 (Matrix Spike)					Prepared: 08/04/2021 Analyzed: 08/05/2021					
Aluminum	3190	5.00	mg/kg wet	200	3020	84.5	75-125					
Antimony	15.0	2.50	"	25.0	ND	59.8	75-125	Low Bias				
Arsenic	194	1.50	"	200	ND	97.0	75-125					
Barium	219	2.50	"	200	10.9	104	75-125					
Beryllium	4.58	0.050	"	5.00	ND	91.6	75-125					
Cadmium	5.00	0.300	"	5.00	ND	99.9	75-125					
Calcium	248	5.00	"	100	161	86.9	75-125					
Chromium	22.5	0.500	"	20.0	4.21	91.4	75-125					
Cobalt	54.9	0.400	"	50.0	2.27	105	75-125					
Copper	28.9	2.00	"	25.0	3.52	101	75-125					
Iron	4980	25.0	"	100	6120	NR	75-125	Low Bias				
Lead	53.5	0.500	"	50.0	1.36	104	75-125					
Magnesium	527	5.00	"	100	328	199	75-125	High Bias				
Manganese	156	0.500	"	50.0	82.9	146	75-125	High Bias				
Nickel	54.4	1.00	"	50.0	3.00	103	75-125					
Potassium	380	5.00	"	100	254	126	75-125	High Bias				
Selenium	166	2.50	"	200	ND	83.0	75-125					
Silver	4.68	0.500	"	5.00	ND	93.6	75-125					
Sodium	101	50.0	"	100	ND	101	75-125					
Thallium	196	2.50	"	200	ND	98.1	75-125					
Vanadium	53.6	1.00	"	50.0	4.41	98.4	75-125					
Zinc	56.1	2.50	"	50.0	6.05	100	75-125					

Post Spike (BH10168-PS1)	Post Spike	*Source sample: 21H0142-01 (Post Spike)					Prepared: 08/04/2021 Analyzed: 08/05/2021					
Aluminum	32.2		ug/mL	2.00	30.2	103	75-125					
Antimony	0.263		"	0.250	-0.006	105	75-125					
Arsenic	2.00		"	2.00	0.006	99.8	75-125					
Barium	2.23		"	2.00	0.109	106	75-125					
Beryllium	0.048		"	0.0500	-0.003	96.7	75-125					
Cadmium	0.051		"	0.0500	-0.0002	103	75-125					
Calcium	2.69		"	1.00	1.61	109	75-125					
Chromium	0.244		"	0.200	0.042	101	75-125					
Cobalt	0.561		"	0.500	0.023	108	75-125					
Copper	0.304		"	0.250	0.035	108	75-125					
Iron	62.3		"	1.00	61.2	103	75-125					
Lead	0.550		"	0.500	0.014	107	75-125					
Magnesium	4.33		"	1.00	3.28	105	75-125					
Manganese	1.36		"	0.500	0.829	106	75-125					
Nickel	0.568		"	0.500	0.030	108	75-125					
Potassium	3.66		"	1.00	2.54	112	75-125					
Selenium	1.70		"	2.00	-0.061	85.2	75-125					
Silver	0.051		"	0.0500	-0.006	101	75-125					
Sodium	1.05		"	1.00	0.160	88.5	75-125					
Thallium	2.03		"	2.00	-0.018	101	75-125					
Vanadium	0.555		"	0.500	0.044	102	75-125					
Zinc	0.575		"	0.500	0.061	103	75-125					



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10168 - EPA 3050B											
Reference (BH10168-SRM1)	Reference	Prepared: 08/04/2021 Analyzed: 08/05/2021									
Aluminum	10100	5.00	mg/kg wet	8130		124	0-200				
Antimony	78.8	2.50	"	134		58.8	0-200				
Arsenic	172	1.50	"	156		110	0-200				
Barium	269	2.50	"	239		113	0-200				
Beryllium	193	0.050	"	169		114	0-200				
Cadmium	158	0.300	"	137		115	0-200				
Calcium	5470	5.00	"	4760		115	0-200				
Chromium	168	0.500	"	154		109	0-200				
Cobalt	144	0.400	"	121		119	0-200				
Copper	60.8	2.00	"	54.9		111	0-200				
Iron	15400	25.0	"	14100		109	0-200				
Lead	140	0.500	"	130		107	0-200				
Magnesium	2660	5.00	"	2320		115	0-200				
Manganese	298	0.500	"	269		111	0-200				
Nickel	73.8	1.00	"	53.9		137	0-200				
Potassium	2340	5.00	"	2020		116	0-200				
Selenium	152	2.50	"	167		91.2	0-200				
Silver	35.6	0.500	"	33.6		106	0-200				
Sodium	156	50.0	"	133		117	0-200				
Thallium	120	2.50	"	112		107	0-200				
Vanadium	64.2	1.00	"	62.6		103	0-200				
Zinc	165	2.50	"	158		104	0-200				



Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10271 - EPA 7473 soil											
Blank (BH10271-BLK1)	Blank								Prepared & Analyzed: 08/05/2021		
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BH10271-DUP1)	Duplicate								Prepared & Analyzed: 08/05/2021		
Mercury	ND	0.0316	mg/kg dry		ND					35	
Matrix Spike (BH10271-MS1)	Matrix Spike								Prepared & Analyzed: 08/05/2021		
Mercury	0.442		mg/kg	0.500	0.00830	86.8	75-125				
Reference (BH10271-SRM1)	Reference								Prepared & Analyzed: 08/05/2021		
Mercury	28.458		mg/kg	27.2		105	59.9-140.1				



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BH10153 - Analysis Preparation Soil												
Blank (BH10153-BLK1)	Blank								Prepared & Analyzed: 08/04/2021			
Cyanide, total	ND	0.500	mg/kg wet									
Duplicate (BH10153-DUP1)	Duplicate	*Source sample: 21H0134-02 (414_EP16_8.5)								Prepared & Analyzed: 08/04/2021		
Cyanide, total	ND	0.539	mg/kg dry		ND						15	
Matrix Spike (BH10153-MS1)	Matrix Spike	*Source sample: 21H0134-02 (414_EP16_8.5)								Prepared & Analyzed: 08/04/2021		
Cyanide, total	8.45	0.539	mg/kg dry	10.8	ND	78.4	79.6-107	Low Bias				
Reference (BH10153-SRM1)	Reference								Prepared & Analyzed: 08/04/2021			
Cyanide, total	101		ug/mL	91.9		110	12.22-159.96					
Batch BH10198 - EPA SW846-3060												
Blank (BH10198-BLK1)	Blank								Prepared & Analyzed: 08/04/2021			
Chromium, Hexavalent	ND	0.500	mg/kg wet									
Duplicate (BH10198-DUP1)	Duplicate	*Source sample: 21G1429-24 (Duplicate)								Prepared & Analyzed: 08/04/2021		
Chromium, Hexavalent	ND	0.599	mg/kg dry		ND						35	
Matrix Spike (BH10198-MS1)	Matrix Spike	*Source sample: 21G1429-24 (Matrix Spike)								Prepared & Analyzed: 08/04/2021		
Chromium, Hexavalent	12.8	0.599	mg/kg dry	24.0	ND	53.6	75-125	Low Bias				
Reference (BH10198-SRM1)	Reference								Prepared & Analyzed: 08/04/2021			
Chromium, Hexavalent	72.2		mg/L	109		66.2	30-169.7					



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10182 - % Solids Prep

Duplicate (BH10182-DUP1)	Duplicate	*Source sample: 21H0134-02 (414 EP16 8.5)						Prepared & Analyzed: 08/04/2021			
% Solids	92.7	0.100	%		92.8				0.0343	20	



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
21H0134-01	414_EP11_8.5	40mL Vial with Stir Bar-Cool 4° C
21H0134-02	414_EP16_8.5	40mL Vial with Stir Bar-Cool 4° C



Sample and Data Qualifiers Relating to This Work Order

M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
ICV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
M-BLK	The target analyte was detected above the RL in the batch method blank. All samples showed >10x the concentration in the blank for this analyte. Data are reported.
M-CRL	The RL check for this element recovered outside of control limits.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.
S-08	The recovery of this surrogate was outside of QC limits.
PFAS-MSH	The recovery for this matrix spike compound was above control limits possibly due to matrix effects or non-homogeneity of the sample versus the native sample
PF-LCS-H	The LCS recovery was slightly above acceptable limits for the qualified compound. However, sample results are not biased high because results are corrected for isotope recovery.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PTel-VAR	This fluorotelomer acid is known to be unstable in mixtures of standards due to dehydrofluorination and formation of methoxy adducts. The data user should take note. These issues create variability in CCVs, LCs and MSs.
QL-02	This LCS analyte is outside Laboratory Recovery limits due to the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported



RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



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Field Chain-of-Custody Record

YORK Project No.
240134

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analytes requested below. Your signature binds you to YORK's Standard Terms & Conditions.

Page **1** of **1**

YOUR INFORMATION		REPORT TO:		INVOICE TO:		YOUR PROJECT NUMBER		TURN-AROUND TIME	
Company Langan	Company []	Company []	Company []	Company []	Company []	Company []	Company []	RUSH - Next Day	<input checked="" type="checkbox"/>
Address 360 W 31st St, 8th floor, NY, NY 10011	Address []	Address []	Address []	Address []	Address []	Address []	Address []	RUSH - Two Day	
Phone 212-470-5400	Phone []	Phone []	Phone []	Phone []	Phone []	Phone []	Phone []	RUSH - Three Day	
Contact Kimberly Semon	Contact []	Contact []	Contact []	Contact []	Contact []	Contact []	Contact []	RUSH - Four Day	
E-mail KSEMON@LANGAN.COM	E-mail []	E-mail []	E-mail []	E-mail []	E-mail []	E-mail []	E-mail []	Standard (5-7 Day)	
Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.		Samples Collected by: (print your name above and sign below) Caroline Gratten		YOUR PO#:		YOUR PROJECT NAME 414/444 Gward Ave		YORK Reg. Comp. Compared to the following Regulation(s): (please list in)	
MATRIX CODES		SAMPLES FROM		REPORT / EDD TYPE (circle selections)		ANALYSIS REQUESTED		CONTAINER DESCRIPTION	
S - soil / solid	<input checked="" type="checkbox"/>	New York	Summary Report	CT RCP	Standard Excel EDD	Analysis Requested		Container Description	
GW - groundwater		New Jersey	QA Report	CT RCP DOA/DUE	EQUS (Standard)	TCL/part 375 VOCs and SVOCs, PCBs, Pesticides, metals including cyanide, hexavalent and trivalent chromium, PFAS, 1,4-dioxane * * Run for all samples			
DW - drinking water		Connecticut	NY ASP A Package	NJDEP Reduced Deliverables	EQUS (Standard)				
WW - wastewater		Pennsylvania	<u>NY ASP B Package</u>	NJDEP SRP HazSite	NYSDEC EQUS				
O - Oil ; Other		Other		Other:					
SAMPLE MATRIX		DATE/TIME SAMPLED		PRESERVATION: (check all that apply)		DATE/TIME		DATE/TIME	
S		8/3/21 15:35	HCl	MeOH	HNO3	H2SO4	NaOH	ZnAc	8/3/21 16:05
S		8/3/21 15:30	Ascorbic Acid	Other:					8/3/21 16:00
									8/3/21 16:00
									8/3/21 16:00
									8/3/21 16:00
Comments: Please also email LESMAIL@LANGAN.COM and DATA MANAGEMENT@LANGAN.COM									
Samples Received by / Company		Date/Time		Samples Received by / Company		Date/Time		Date/Time	
[Signature]		8/3/21 16:05		[Signature]		8/3/21 16:00		8/3/21 16:00	
[Signature]		8/3/21 16:00		[Signature]		8/3/21 16:00		8/3/21 16:00	
[Signature]		8/3/21 16:00		[Signature]		8/3/21 16:00		8/3/21 16:00	



Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

Attention: Kimberly Semon

Report Date: 08/05/2021

Client Project ID: 170488401

York Project (SDG) No.: 21G1434

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 08/05/2021
Client Project ID: 170488401
York Project (SDG) No.: 21G1434

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Kimberly Semon

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 30, 2021 and listed below. The project was identified as your project: **170488401**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21G1434-01	414_EP13_8.5	Soil	07/30/2021	07/30/2021
21G1434-02	414_EP18_8.5	Soil	07/30/2021	07/30/2021
21G1434-03	414_EP12_8.5	Soil	07/30/2021	07/30/2021
21G1434-04	414_EP17_8.5	Soil	07/30/2021	07/30/2021
21G1434-05	414_EP04_13	Soil	07/30/2021	07/30/2021

General Notes for York Project (SDG) No.: 21G1434

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By



Cassie L. Mosher
Laboratory Manager

Date: 08/05/2021





Sample Information

Client Sample ID: 414_EP13_8.5

York Sample ID: 21G1434-01

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:00 pm	<u>Date Received</u> 07/30/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.038	0.076	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
78-93-3	2-Butanone	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ





Sample Information

Client Sample ID: 414_EP13_8.5

York Sample ID: 21G1434-01

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:00 pm	<u>Date Received</u> 07/30/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
67-64-1	Acetone	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
107-02-8	Acrolein	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
71-43-2	Benzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
75-25-2	Bromoform	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
74-83-9	Bromomethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
75-00-3	Chloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
67-66-3	Chloroform	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
74-87-3	Chloromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
110-82-7	Cyclohexane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
74-95-3	Dibromomethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ



Sample Information

Client Sample ID: 414_EP13_8.5

York Sample ID: 21G1434-01

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:00 pm	<u>Date Received</u> 07/30/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
79-20-9	Methyl acetate	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
75-09-2	Methylene chloride	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
95-47-6	o-Xylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
100-42-5	Styrene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
108-88-3	Toluene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/03/2021 06:47	08/03/2021 14:00	LLJ



Sample Information

Client Sample ID: 414_EP13_8.5

York Sample ID: 21G1434-01

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 21G1434, 170488401, Soil, July 30, 2021 3:00 pm, 07/30/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for Vinyl Chloride, Xylenes, Total, and Surrogate Recoveries.

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various chlorophenols and biphenyls.



Sample Information

Client Sample ID: 414_EP13_8.5

York Sample ID: 21G1434-01

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:00 pm	<u>Date Received</u> 07/30/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0952	0.190	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0952	0.190	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0952	0.190	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0952	0.190	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0952	0.190	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
62-53-3	Aniline	ND		mg/kg dry	0.191	0.381	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
92-87-5	Benzidine	ND		mg/kg dry	0.191	0.381	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH



Sample Information

Client Sample ID: 414_EP13_8.5

York Sample ID: 21G1434-01

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:00 pm	<u>Date Received</u> 07/30/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0952	0.190	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0952	0.190	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH



Sample Information

Client Sample ID: 414_EP13_8.5

York Sample ID: 21G1434-01

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:00 pm	<u>Date Received</u> 07/30/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
108-95-2	Phenol	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0477	0.0952	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH
110-86-1	Pyridine	ND		mg/kg dry	0.191	0.381	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/02/2021 23:47	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	71.2 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	59.4 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	74.6 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	71.6 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	96.8 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	76.7 %	24-116



Sample Information

Client Sample ID: 414_EP13_8.5

York Sample ID: 21G1434-01

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:00 pm	<u>Date Received</u> 07/30/2021
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Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.0	1	EPA 8270D SIM Certifications: NELAC-NY10854	08/04/2021 14:54	08/05/2021 10:03	KH
Surrogate Recoveries		Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	56.0 %	39-127.5							

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.266	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 15:49	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.266	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 15:49	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.266	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 15:49	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.266	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 15:49	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.266	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 15:49	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.266	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 15:49	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.266	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 15:49	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.266	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 15:49	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.266	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 15:49	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.266	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 15:49	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.266	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 15:49	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.266	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 15:49	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.266	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 15:49	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.266	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 15:49	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.266	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 15:49	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.266	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 15:49	WL



Sample Information

Client Sample ID: 414_EP13_8.5

York Sample ID: 21G1434-01

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:00 pm	<u>Date Received</u> 07/30/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.266	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 15:49	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.266	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 15:49	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.266	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 15:49	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.266	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 15:49	WL
375-22-4	* Perfluoro-n-butyric acid (PFBA)	ND		ug/kg dry	0.266	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 15:49	WL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	84.3 %	25-150
Surrogate: M5PFHxA	89.2 %	25-150
Surrogate: M4PFHpA	85.1 %	25-150
Surrogate: M3PFHxS	78.7 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic aci	91.6 %	25-150
Surrogate: M6PFDA	94.9 %	25-150
Surrogate: M7PFUdA	78.6 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	88.2 %	25-150
Surrogate: M2PFTeDA	47.1 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic aci	94.7 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfor	66.4 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic ac	98.5 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfor	61.5 %	10-150
Surrogate: d3-N-MeFOSAA	109 %	25-150
Surrogate: d5-N-EtFOSAA	110 %	25-150
Surrogate: M2-6:2 FTS	244 %	PFSu-H 25-200
Surrogate: M2-8:2 FTS	378 %	PFSu-H 25-200
Surrogate: M9PFNA	102 %	25-150

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00190	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:53	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00190	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:53	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00190	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:53	CM





Sample Information

Client Sample ID: 414_EP13_8.5

York Sample ID: 21G1434-01

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:00 pm	<u>Date Received</u> 07/30/2021
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00190	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:53	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00190	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:53	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00190	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/02/2021 20:08	08/03/2021 13:53	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00190	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:53	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00190	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:53	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00190	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:53	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00190	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:53	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00190	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/02/2021 20:08	08/03/2021 13:53	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00190	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:53	CM
72-20-8	Endrin	ND		mg/kg dry	0.00190	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:53	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00190	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:53	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00190	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:53	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00190	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:53	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00190	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/02/2021 20:08	08/03/2021 13:53	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00190	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:53	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00190	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:53	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00190	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:53	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.190	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:53	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0381	5	EPA 8081B Certifications:	08/02/2021 20:08	08/03/2021 13:53	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	62.8 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	86.7 %	30-150							



Sample Information

Client Sample ID: 414_EP13_8.5

York Sample ID: 21G1434-01

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:00 pm	<u>Date Received</u> 07/30/2021
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:00	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:00	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:00	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:00	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:00	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:00	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:00	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications:	08/02/2021 20:08	08/03/2021 13:00	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	87.5 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	52.5 %	30-120							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	14500		mg/kg dry	5.80	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM
7440-36-0	Antimony	ND		mg/kg dry	2.90	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM
7440-39-3	Barium	48.2		mg/kg dry	2.90	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.058	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.348	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM
7440-70-2	Calcium	2980		mg/kg dry	5.80	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM
7440-47-3	Chromium	23.9		mg/kg dry	0.580	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM
7440-48-4	Cobalt	12.2		mg/kg dry	0.464	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM



Sample Information

Client Sample ID: 414_EP13_8.5

York Sample ID: 21G1434-01

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:00 pm	<u>Date Received</u> 07/30/2021
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	21.5		mg/kg dry	2.32	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM
7439-89-6	Iron	18000		mg/kg dry	29.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM
7439-92-1	Lead	4.11		mg/kg dry	0.580	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM
7439-95-4	Magnesium	18500		mg/kg dry	5.80	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM
7439-96-5	Manganese	540		mg/kg dry	0.580	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM
7440-02-0	Nickel	24.3		mg/kg dry	1.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM
7440-09-7	Potassium	1660		mg/kg dry	5.80	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM
7782-49-2	Selenium	ND		mg/kg dry	2.90	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM
7440-22-4	Silver	ND		mg/kg dry	0.580	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM
7440-23-5	Sodium	208		mg/kg dry	58.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM
7440-28-0	Thallium	ND		mg/kg dry	2.90	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM
7440-62-2	Vanadium	32.1		mg/kg dry	1.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM
7440-66-6	Zinc	57.3		mg/kg dry	2.90	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:47	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0348	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	08/03/2021 13:45	08/03/2021 14:32	BR

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.580	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	08/02/2021 14:13	08/02/2021 19:44	MAO

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: 414_EP13_8.5

York Sample ID: 21G1434-01

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:00 pm	<u>Date Received</u> 07/30/2021
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	23.9		mg/kg	0.500	1	Calculation	08/03/2021 13:45	08/03/2021 15:09	PAM
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.580	1	EPA 9014/9010C	08/02/2021 14:13	08/02/2021 20:48	ZTS
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	86.1		%	0.100	1	SM 2540G	08/02/2021 12:47	08/02/2021 15:47	VR
Certifications: CTDOH										



Sample Information

Client Sample ID: 414_EP18_8.5

York Sample ID: 21G1434-02

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:01 pm	<u>Date Received</u> 07/30/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.040	0.080	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
78-93-3	2-Butanone	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ



Sample Information

Client Sample ID: 414_EP18_8.5

York Sample ID: 21G1434-02

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:01 pm	<u>Date Received</u> 07/30/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
67-64-1	Acetone	0.0051	ICV-E, J	mg/kg dry	0.0040	0.0080	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
107-02-8	Acrolein	ND		mg/kg dry	0.0040	0.0080	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
71-43-2	Benzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
75-25-2	Bromoform	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
74-83-9	Bromomethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
75-00-3	Chloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
67-66-3	Chloroform	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
74-87-3	Chloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
110-82-7	Cyclohexane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
74-95-3	Dibromomethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ



Sample Information

Client Sample ID: 414_EP18_8.5

York Sample ID: 21G1434-02

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:01 pm	<u>Date Received</u> 07/30/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
79-20-9	Methyl acetate	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
75-09-2	Methylene chloride	ND		mg/kg dry	0.0040	0.0080	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
95-47-6	o-Xylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0040	0.0080	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
100-42-5	Styrene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
108-88-3	Toluene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:12	LLJ



Sample Information

Client Sample ID: 414_EP18_8.5

York Sample ID: 21G1434-02

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 21G1434, 170488401, Soil, July 30, 2021 3:01 pm, 07/30/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for Vinyl Chloride, Xylenes, Total, and Surrogate Recoveries.

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various chlorophenols and biphenyls.



Sample Information

Client Sample ID: 414_EP18_8.5

York Sample ID: 21G1434-02

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:01 pm	<u>Date Received</u> 07/30/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0903	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0903	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0903	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0903	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0903	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
62-53-3	Aniline	ND		mg/kg dry	0.181	0.361	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
92-87-5	Benzidine	ND		mg/kg dry	0.181	0.361	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH



Sample Information

Client Sample ID: 414_EP18_8.5

York Sample ID: 21G1434-02

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:01 pm	<u>Date Received</u> 07/30/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0903	0.180	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0903	0.180	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH



Sample Information

Client Sample ID: 414_EP18_8.5

York Sample ID: 21G1434-02

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:01 pm	<u>Date Received</u> 07/30/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
108-95-2	Phenol	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH
110-86-1	Pyridine	ND		mg/kg dry	0.181	0.361	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:18	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	51.1 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	56.1 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	73.8 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	70.8 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	52.0 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	76.9 %	24-116



Sample Information

Client Sample ID: 414_EP18_8.5

York Sample ID: 21G1434-02

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:01 pm	<u>Date Received</u> 07/30/2021
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Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM Certifications: NELAC-NY10854	08/04/2021 14:54	08/05/2021 10:20	KH
Surrogate Recoveries		Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	54.0 %	39-127.5							

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.276	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 16:56	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.276	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 16:56	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.276	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 16:56	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.276	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 16:56	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.276	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 16:56	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.276	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 16:56	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.276	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 16:56	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.276	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 16:56	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.276	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 16:56	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.276	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 16:56	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.276	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 16:56	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.276	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 16:56	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.276	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 16:56	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.276	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 16:56	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.276	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 16:56	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.276	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 16:56	WL



Sample Information

Client Sample ID: 414_EP18_8.5

York Sample ID: 21G1434-02

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:01 pm	<u>Date Received</u> 07/30/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.276	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 16:56	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.276	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 16:56	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.276	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 16:56	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.276	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 16:56	WL
375-22-4	* Perfluoro-n-butyric acid (PFBA)	ND		ug/kg dry	0.276	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 16:56	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	81.8 %	25-150
Surrogate: M5PFHxA	86.8 %	25-150
Surrogate: M4PFHpA	77.2 %	25-150
Surrogate: M3PFHxS	73.4 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic aci	85.3 %	25-150
Surrogate: M6PFDA	84.6 %	25-150
Surrogate: M7PFUdA	71.9 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	78.6 %	25-150
Surrogate: M2PFTeDA	42.8 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic aci	90.8 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfor	68.7 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic ac	90.2 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfor	58.3 %	10-150
Surrogate: d3-N-MeFOSAA	81.4 %	25-150
Surrogate: d5-N-EtFOSAA	80.8 %	25-150
Surrogate: M2-6:2 FTS	171 %	25-200
Surrogate: M2-8:2 FTS	211 %	25-200
Surrogate: M9PFNA	103 %	25-150

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:09	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:09	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:09	CM



Sample Information

Client Sample ID: 414_EP18_8.5

York Sample ID: 21G1434-02

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:01 pm	<u>Date Received</u> 07/30/2021
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:09	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:09	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/02/2021 20:08	08/03/2021 14:09	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:09	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:09	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:09	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:09	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/02/2021 20:08	08/03/2021 14:09	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:09	CM
72-20-8	Endrin	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:09	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:09	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:09	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:09	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/02/2021 20:08	08/03/2021 14:09	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:09	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:09	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:09	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:09	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0362	5	EPA 8081B Certifications:	08/02/2021 20:08	08/03/2021 14:09	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	59.2 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	83.0 %	30-150							



Sample Information

Client Sample ID: 414_EP18_8.5

York Sample ID: 21G1434-02

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:01 pm	<u>Date Received</u> 07/30/2021
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:13	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:13	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:13	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:13	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:13	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:13	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:13	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications:	08/02/2021 20:08	08/03/2021 13:13	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	83.0 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	50.0 %	30-120							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	11700		mg/kg dry	5.57	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM
7440-36-0	Antimony	ND		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM
7440-39-3	Barium	56.0		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.056	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.334	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM
7440-70-2	Calcium	56900		mg/kg dry	5.57	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM
7440-47-3	Chromium	23.2		mg/kg dry	0.557	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM
7440-48-4	Cobalt	8.54		mg/kg dry	0.446	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM



Sample Information

Client Sample ID: 414_EP18_8.5

York Sample ID: 21G1434-02

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:01 pm	<u>Date Received</u> 07/30/2021
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	20.0		mg/kg dry	2.23	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM
7439-89-6	Iron	14700		mg/kg dry	27.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM
7439-92-1	Lead	5.82		mg/kg dry	0.557	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM
7439-95-4	Magnesium	39100		mg/kg dry	5.57	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM
7439-96-5	Manganese	337		mg/kg dry	0.557	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM
7440-02-0	Nickel	16.9		mg/kg dry	1.11	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM
7440-09-7	Potassium	1530		mg/kg dry	5.57	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM
7782-49-2	Selenium	7.35		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM
7440-22-4	Silver	ND		mg/kg dry	0.557	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM
7440-23-5	Sodium	408		mg/kg dry	55.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM
7440-28-0	Thallium	ND		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM
7440-62-2	Vanadium	28.0		mg/kg dry	1.11	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM
7440-66-6	Zinc	37.8		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 11:57	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0334	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	08/03/2021 13:45	08/03/2021 14:57	BR

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	1.38		mg/kg dry	0.557	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	08/02/2021 14:13	08/02/2021 19:44	MAO

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: 414_EP18_8.5

York Sample ID: 21G1434-02

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:01 pm	<u>Date Received</u> 07/30/2021
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	21.8		mg/kg	0.500	1	Calculation	08/03/2021 13:45	08/03/2021 15:09	PAM
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.557	1	EPA 9014/9010C	08/02/2021 14:13	08/02/2021 20:48	ZTS
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	89.7		%	0.100	1	SM 2540G	08/02/2021 12:47	08/02/2021 15:47	VR
Certifications: CTDOH										



Sample Information

Client Sample ID: 414_EP12_8.5

York Sample ID: 21G1434-03

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:02 pm	<u>Date Received</u> 07/30/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.044	0.087	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
78-93-3	2-Butanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ



Sample Information

Client Sample ID: 414_EP12_8.5

York Sample ID: 21G1434-03

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:02 pm	<u>Date Received</u> 07/30/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
67-64-1	Acetone	ND		mg/kg dry	0.0044	0.0087	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
107-02-8	Acrolein	ND		mg/kg dry	0.0044	0.0087	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
71-43-2	Benzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
75-25-2	Bromoform	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
74-83-9	Bromomethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
75-00-3	Chloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
67-66-3	Chloroform	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
74-87-3	Chloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
110-82-7	Cyclohexane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
74-95-3	Dibromomethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ



Sample Information

Client Sample ID: 414_EP12_8.5

York Sample ID: 21G1434-03

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:02 pm	<u>Date Received</u> 07/30/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
79-20-9	Methyl acetate	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
75-09-2	Methylene chloride	ND		mg/kg dry	0.0044	0.0087	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
95-47-6	o-Xylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0044	0.0087	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
100-42-5	Styrene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
108-88-3	Toluene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ



Sample Information

Client Sample ID: 414_EP12_8.5

York Sample ID: 21G1434-03

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:02 pm	<u>Date Received</u> 07/30/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0065	0.013	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/02/2021 06:47	08/02/2021 20:38	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	95.3 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	99.5 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	95.0 %			76-130						

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0925	0.185	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0925	0.185	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0925	0.185	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH



Sample Information

Client Sample ID: 414_EP12_8.5

York Sample ID: 21G1434-03

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:02 pm	<u>Date Received</u> 07/30/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0925	0.185	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0925	0.185	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0925	0.185	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0925	0.185	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0925	0.185	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
62-53-3	Aniline	ND		mg/kg dry	0.185	0.370	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
92-87-5	Benzidine	ND		mg/kg dry	0.185	0.370	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH



Sample Information

Client Sample ID: 414_EP12_8.5

York Sample ID: 21G1434-03

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:02 pm	<u>Date Received</u> 07/30/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0925	0.185	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0925	0.185	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH



Sample Information

Client Sample ID: 414_EP12_8.5

York Sample ID: 21G1434-03

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:02 pm	<u>Date Received</u> 07/30/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
108-95-2	Phenol	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH
110-86-1	Pyridine	ND		mg/kg dry	0.185	0.370	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 00:49	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	66.3 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	58.2 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	69.3 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	69.2 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	93.2 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	79.6 %	24-116



Sample Information

Client Sample ID: 414_EP12_8.5

York Sample ID: 21G1434-03

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:02 pm	<u>Date Received</u> 07/30/2021
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Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM Certifications: NELAC-NY10854	08/04/2021 14:54	08/05/2021 10:38	KH
Surrogate Recoveries		Result			Acceptance Range					
17647-74-4	Surrogate: 1,4-Dioxane-d8	54.0 %			39-127.5					

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:18	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:18	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:18	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:18	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:18	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:18	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:18	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:18	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:18	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:18	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:18	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:18	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:18	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:18	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:18	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:18	WL



Sample Information

Client Sample ID: 414_EP12_8.5

York Sample ID: 21G1434-03

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:02 pm	<u>Date Received</u> 07/30/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:18	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:18	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:18	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:18	WL
375-22-4	* Perfluoro-n-butyric acid (PFBA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:18	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	77.3 %	25-150
Surrogate: M5PFHxA	81.5 %	25-150
Surrogate: M4PFHpA	79.7 %	25-150
Surrogate: M3PFHxS	73.0 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic aci	84.2 %	25-150
Surrogate: M6PFDA	82.2 %	25-150
Surrogate: M7PFUdA	67.7 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	77.6 %	25-150
Surrogate: M2PFTeDA	39.8 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic aci	89.9 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfor	66.9 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic ac	92.8 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfor	56.1 %	10-150
Surrogate: d3-N-MeFOSAA	76.4 %	25-150
Surrogate: d5-N-EtFOSAA	77.3 %	25-150
Surrogate: M2-6:2 FTS	130 %	25-200
Surrogate: M2-8:2 FTS	174 %	25-200
Surrogate: M9PFNA	94.5 %	25-150

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00182	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:43	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00182	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:43	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00182	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:43	CM



Sample Information

Client Sample ID: 414_EP12_8.5

York Sample ID: 21G1434-03

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:02 pm	<u>Date Received</u> 07/30/2021
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00182	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:43	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00182	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:43	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00182	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/02/2021 20:08	08/03/2021 14:43	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00182	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:43	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00182	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:43	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00182	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:43	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00182	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:43	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00182	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/02/2021 20:08	08/03/2021 14:43	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00182	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:43	CM
72-20-8	Endrin	ND		mg/kg dry	0.00182	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:43	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00182	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:43	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00182	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:43	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00182	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:43	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00182	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/02/2021 20:08	08/03/2021 14:43	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00182	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:43	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00182	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:43	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00182	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:43	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.182	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 14:43	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0363	5	EPA 8081B Certifications:	08/02/2021 20:08	08/03/2021 14:43	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	57.9 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	81.3 %	30-150							



Sample Information

Client Sample ID: 414_EP12_8.5

York Sample ID: 21G1434-03

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:02 pm	<u>Date Received</u> 07/30/2021
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:27	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:27	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:27	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:27	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:27	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:27	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:27	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications:	08/02/2021 20:08	08/03/2021 13:27	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	80.5 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	49.0 %	30-120							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	17300		mg/kg dry	5.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM
7440-36-0	Antimony	ND		mg/kg dry	2.83	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM
7440-38-2	Arsenic	3.02		mg/kg dry	1.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM
7440-39-3	Barium	108		mg/kg dry	2.83	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.057	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.339	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM
7440-70-2	Calcium	2370		mg/kg dry	5.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM
7440-47-3	Chromium	30.9		mg/kg dry	0.565	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM
7440-48-4	Cobalt	12.9		mg/kg dry	0.452	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM



Sample Information

Client Sample ID: 414_EP12_8.5

York Sample ID: 21G1434-03

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:02 pm	<u>Date Received</u> 07/30/2021
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	32.7		mg/kg dry	2.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM
7439-89-6	Iron	24000		mg/kg dry	28.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM
7439-92-1	Lead	7.06		mg/kg dry	0.565	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM
7439-95-4	Magnesium	13200		mg/kg dry	5.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM
7439-96-5	Manganese	562		mg/kg dry	0.565	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM
7440-02-0	Nickel	27.1		mg/kg dry	1.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM
7440-09-7	Potassium	2420		mg/kg dry	5.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM
7782-49-2	Selenium	ND		mg/kg dry	2.83	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM
7440-22-4	Silver	ND		mg/kg dry	0.565	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM
7440-23-5	Sodium	194		mg/kg dry	56.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM
7440-28-0	Thallium	ND		mg/kg dry	2.83	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM
7440-62-2	Vanadium	39.9		mg/kg dry	1.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM
7440-66-6	Zinc	56.7		mg/kg dry	2.83	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:00	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0339	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	08/03/2021 13:45	08/03/2021 15:05	BR

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.565	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	08/02/2021 14:13	08/02/2021 19:44	MAO

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: 414_EP12_8.5

York Sample ID: 21G1434-03

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21G1434	170488401	Soil	July 30, 2021 3:02 pm	07/30/2021

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	30.9		mg/kg	0.500	1	Calculation	08/03/2021 13:45	08/03/2021 15:09	PAM
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.565	1	EPA 9014/9010C	08/02/2021 14:13	08/02/2021 20:48	ZTS
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	88.4		%	0.100	1	SM 2540G	08/02/2021 12:47	08/02/2021 15:47	VR
Certifications: CTDOH										



Sample Information

Client Sample ID: 414_EP17_8.5

York Sample ID: 21G1434-04

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:03 pm	<u>Date Received</u> 07/30/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.045	0.090	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
78-93-3	2-Butanone	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ



Sample Information

Client Sample ID: 414_EP17_8.5

York Sample ID: 21G1434-04

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:03 pm	<u>Date Received</u> 07/30/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
67-64-1	Acetone	ND		mg/kg dry	0.0045	0.0090	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
107-02-8	Acrolein	ND		mg/kg dry	0.0045	0.0090	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
71-43-2	Benzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
75-25-2	Bromoform	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
74-83-9	Bromomethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
75-00-3	Chloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
67-66-3	Chloroform	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
74-87-3	Chloromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
110-82-7	Cyclohexane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
74-95-3	Dibromomethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ



Sample Information

Client Sample ID: 414_EP17_8.5

York Sample ID: 21G1434-04

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:03 pm	<u>Date Received</u> 07/30/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
79-20-9	Methyl acetate	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
75-09-2	Methylene chloride	ND		mg/kg dry	0.0045	0.0090	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
95-47-6	o-Xylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0045	0.0090	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
100-42-5	Styrene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
108-88-3	Toluene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ



Sample Information

Client Sample ID: 414_EP17_8.5

York Sample ID: 21G1434-04

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:03 pm	<u>Date Received</u> 07/30/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0067	0.013	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/02/2021 06:47	08/02/2021 21:05	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	92.1 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	99.5 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	97.3 %			76-130						

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0935	0.187	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0935	0.187	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0935	0.187	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH



Sample Information

Client Sample ID: 414_EP17_8.5

York Sample ID: 21G1434-04

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:03 pm	<u>Date Received</u> 07/30/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0935	0.187	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0935	0.187	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0935	0.187	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0935	0.187	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0935	0.187	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
62-53-3	Aniline	ND		mg/kg dry	0.187	0.375	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
92-87-5	Benzidine	ND		mg/kg dry	0.187	0.375	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH



Sample Information

Client Sample ID: 414_EP17_8.5

York Sample ID: 21G1434-04

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:03 pm	<u>Date Received</u> 07/30/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0935	0.187	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0935	0.187	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH



Sample Information

Client Sample ID: 414_EP17_8.5

York Sample ID: 21G1434-04

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:03 pm	<u>Date Received</u> 07/30/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
108-95-2	Phenol	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0469	0.0935	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH
110-86-1	Pyridine	ND		mg/kg dry	0.187	0.375	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:20	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	63.2 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	54.8 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	65.2 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	61.8 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	83.6 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	68.2 %	24-116



Sample Information

Client Sample ID: 414_EP17_8.5

York Sample ID: 21G1434-04

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:03 pm	<u>Date Received</u> 07/30/2021
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Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM Certifications: NELAC-NY10854	08/04/2021 14:54	08/05/2021 10:55	KH
Surrogate Recoveries		Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	64.0 %	39-127.5							

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.275	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:41	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.275	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:41	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.275	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:41	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.275	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:41	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.275	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:41	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.275	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:41	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.275	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:41	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.275	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:41	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.275	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:41	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.275	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:41	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.275	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:41	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.275	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:41	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.275	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:41	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.275	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:41	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.275	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:41	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.275	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:41	WL



Sample Information

Client Sample ID: 414_EP17_8.5

York Sample ID: 21G1434-04

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:03 pm	<u>Date Received</u> 07/30/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.275	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:41	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.275	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:41	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.275	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:41	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.275	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:41	WL
375-22-4	* Perfluoro-n-butyric acid (PFBA)	ND		ug/kg dry	0.275	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 17:41	WL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	88.9 %	25-150
Surrogate: M5PFHxA	91.6 %	25-150
Surrogate: M4PFHpA	84.8 %	25-150
Surrogate: M3PFHxS	82.0 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic aci	91.6 %	25-150
Surrogate: M6PFDA	95.0 %	25-150
Surrogate: M7PFUdA	76.5 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	83.3 %	25-150
Surrogate: M2PFTeDA	43.3 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic aci	102 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfor	75.9 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic ac	103 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfor	64.5 %	10-150
Surrogate: d3-N-MeFOSAA	77.6 %	25-150
Surrogate: d5-N-EtFOSAA	88.8 %	25-150
Surrogate: M2-6:2 FTS	122 %	25-200
Surrogate: M2-8:2 FTS	154 %	25-200
Surrogate: M9PFNA	108 %	25-150

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00189	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:00	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00189	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:00	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00189	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:00	CM



Sample Information

Client Sample ID: 414_EP17_8.5

York Sample ID: 21G1434-04

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:03 pm	<u>Date Received</u> 07/30/2021
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00189	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:00	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00189	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:00	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00189	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/02/2021 20:08	08/03/2021 15:00	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00189	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:00	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00189	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:00	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00189	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:00	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00189	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:00	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00189	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/02/2021 20:08	08/03/2021 15:00	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00189	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:00	CM
72-20-8	Endrin	ND		mg/kg dry	0.00189	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:00	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00189	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:00	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00189	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:00	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00189	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:00	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00189	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/02/2021 20:08	08/03/2021 15:00	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00189	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:00	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00189	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:00	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00189	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:00	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.189	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:00	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0377	5	EPA 8081B Certifications:	08/02/2021 20:08	08/03/2021 15:00	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	50.0 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	73.8 %	30-150							



Sample Information

Client Sample ID: 414_EP17_8.5

York Sample ID: 21G1434-04

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:03 pm	<u>Date Received</u> 07/30/2021
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:40	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:40	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:40	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:40	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:40	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:40	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:40	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications:	08/02/2021 20:08	08/03/2021 13:40	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	76.5 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	42.5 %	30-120							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	6850		mg/kg dry	5.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM
7440-36-0	Antimony	ND		mg/kg dry	2.88	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM
7440-38-2	Arsenic	1.74		mg/kg dry	1.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM
7440-39-3	Barium	28.7		mg/kg dry	2.88	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.058	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.345	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM
7440-70-2	Calcium	1070		mg/kg dry	5.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM
7440-47-3	Chromium	10.1		mg/kg dry	0.576	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM
7440-48-4	Cobalt	5.71		mg/kg dry	0.461	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM



Sample Information

Client Sample ID: 414_EP17_8.5

York Sample ID: 21G1434-04

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:03 pm	<u>Date Received</u> 07/30/2021
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	10.4		mg/kg dry	2.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM
7439-89-6	Iron	13700		mg/kg dry	28.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM
7439-92-1	Lead	3.40		mg/kg dry	0.576	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM
7439-95-4	Magnesium	2740		mg/kg dry	5.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM
7439-96-5	Manganese	332		mg/kg dry	0.576	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM
7440-02-0	Nickel	10.8		mg/kg dry	1.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM
7440-09-7	Potassium	1060		mg/kg dry	5.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM
7782-49-2	Selenium	ND		mg/kg dry	2.88	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM
7440-22-4	Silver	ND		mg/kg dry	0.576	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM
7440-23-5	Sodium	66.4		mg/kg dry	57.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM
7440-28-0	Thallium	ND		mg/kg dry	2.88	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM
7440-62-2	Vanadium	13.7		mg/kg dry	1.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM
7440-66-6	Zinc	28.7		mg/kg dry	2.88	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:03	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0345	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	08/03/2021 13:45	08/03/2021 15:14	BR

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.576	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	08/02/2021 14:13	08/02/2021 19:44	MAO

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: 414_EP17_8.5

York Sample ID: 21G1434-04

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:03 pm	<u>Date Received</u> 07/30/2021
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	10.1		mg/kg	0.500	1	Calculation	08/03/2021 13:45	08/03/2021 15:09	PAM
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.576	1	EPA 9014/9010C	08/02/2021 14:13	08/02/2021 20:48	ZTS
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	86.9		%	0.100	1	SM 2540G	08/02/2021 12:47	08/02/2021 15:47	VR
Certifications: CTDOH										



Sample Information

Client Sample ID: 414_EP04_13

York Sample ID: 21G1434-05

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:04 pm	<u>Date Received</u> 07/30/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.051	0.10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
78-93-3	2-Butanone	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ



Sample Information

Client Sample ID: 414_EP04_13

York Sample ID: 21G1434-05

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:04 pm	<u>Date Received</u> 07/30/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
67-64-1	Acetone	ND		mg/kg dry	0.0051	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
107-02-8	Acrolein	ND		mg/kg dry	0.0051	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ



Sample Information

Client Sample ID: 414_EP04_13

York Sample ID: 21G1434-05

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:04 pm	<u>Date Received</u> 07/30/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
75-09-2	Methylene chloride	ND		mg/kg dry	0.0051	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0051	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ



Sample Information

Client Sample ID: 414_EP04_13

York Sample ID: 21G1434-05

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:04 pm	<u>Date Received</u> 07/30/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0077	0.015	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/02/2021 06:47	08/02/2021 21:31	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	91.8 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	101 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	97.2 %			76-130						

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.107	0.213	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.107	0.213	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.107	0.213	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH



Sample Information

Client Sample ID: 414_EP04_13

York Sample ID: 21G1434-05

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:04 pm	<u>Date Received</u> 07/30/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.107	0.213	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.107	0.213	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.107	0.213	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.107	0.213	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.107	0.213	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
62-53-3	Aniline	ND		mg/kg dry	0.214	0.427	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
92-87-5	Benzidine	ND		mg/kg dry	0.214	0.427	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH



Sample Information

Client Sample ID: 414_EP04_13

York Sample ID: 21G1434-05

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:04 pm	<u>Date Received</u> 07/30/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.107	0.213	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.107	0.213	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH



Sample Information

Client Sample ID: 414_EP04_13

York Sample ID: 21G1434-05

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:04 pm	<u>Date Received</u> 07/30/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
108-95-2	Phenol	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0535	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH
110-86-1	Pyridine	ND		mg/kg dry	0.214	0.427	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/31/2021 07:00	08/03/2021 01:51	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	73.3 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	63.8 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	74.2 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	75.9 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	101 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	82.7 %	24-116



Sample Information

Client Sample ID: 414_EP04_13

York Sample ID: 21G1434-05

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:04 pm	<u>Date Received</u> 07/30/2021
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Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.0	1	EPA 8270D SIM Certifications: NELAC-NY10854	08/04/2021 14:54	08/05/2021 11:12	KH
Surrogate Recoveries		Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	58.0 %	39-127.5							

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.301	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 18:03	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.301	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 18:03	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.301	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 18:03	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.301	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 18:03	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.301	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 18:03	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.301	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 18:03	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.301	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 18:03	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.301	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 18:03	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.301	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 18:03	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.301	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 18:03	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.301	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 18:03	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.301	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 18:03	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.301	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 18:03	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.301	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 18:03	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.301	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 18:03	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.301	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 18:03	WL



Sample Information

Client Sample ID: 414_EP04_13

York Sample ID: 21G1434-05

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:04 pm	<u>Date Received</u> 07/30/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.301	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 18:03	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.301	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 18:03	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.301	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 18:03	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.301	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 18:03	WL
375-22-4	* Perfluoro-n-butyanoic acid (PFBA)	ND		ug/kg dry	0.301	1	EPA 537m Certifications:	08/03/2021 16:25	08/04/2021 18:03	WL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	78.4 %	25-150
Surrogate: M5PFHxA	80.8 %	25-150
Surrogate: M4PFHpA	73.0 %	25-150
Surrogate: M3PFHxS	67.3 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic aci	80.5 %	25-150
Surrogate: M6PFDA	75.3 %	25-150
Surrogate: M7PFUdA	62.1 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	69.1 %	25-150
Surrogate: M2PFTeDA	38.5 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic aci	98.5 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfor	62.4 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic ac	90.9 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfor	45.5 %	10-150
Surrogate: d3-N-MeFOSAA	61.3 %	25-150
Surrogate: d5-N-EtFOSAA	70.9 %	25-150
Surrogate: M2-6:2 FTS	114 %	25-200
Surrogate: M2-8:2 FTS	173 %	25-200
Surrogate: M9PFNA	88.0 %	25-150

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:16	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:16	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:16	CM





Sample Information

Client Sample ID: 414_EP04_13

York Sample ID: 21G1434-05

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:04 pm	<u>Date Received</u> 07/30/2021
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:16	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:16	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/02/2021 20:08	08/03/2021 15:16	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:16	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:16	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:16	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:16	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/02/2021 20:08	08/03/2021 15:16	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:16	CM
72-20-8	Endrin	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:16	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:16	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:16	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:16	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/02/2021 20:08	08/03/2021 15:16	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:16	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:16	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:16	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 15:16	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0422	5	EPA 8081B Certifications:	08/02/2021 20:08	08/03/2021 15:16	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	69.3 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	86.0 %	30-150							



Sample Information

Client Sample ID: 414_EP04_13

York Sample ID: 21G1434-05

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:04 pm	<u>Date Received</u> 07/30/2021
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0213	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:54	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0213	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:54	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0213	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:54	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0213	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:54	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0213	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:54	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0213	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:54	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0213	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/02/2021 20:08	08/03/2021 13:54	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0213	1	EPA 8082A Certifications:	08/02/2021 20:08	08/03/2021 13:54	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	85.0 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	57.5 %	30-120							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	9110		mg/kg dry	6.53	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM
7440-36-0	Antimony	ND		mg/kg dry	3.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM
7440-38-2	Arsenic	2.75		mg/kg dry	1.96	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM
7440-39-3	Barium	52.2		mg/kg dry	3.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.065	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.392	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM
7440-70-2	Calcium	1140		mg/kg dry	6.53	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM
7440-47-3	Chromium	12.7		mg/kg dry	0.653	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM
7440-48-4	Cobalt	7.85		mg/kg dry	0.522	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM



Sample Information

Client Sample ID: 414_EP04_13

York Sample ID: 21G1434-05

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:04 pm	<u>Date Received</u> 07/30/2021
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	16.0		mg/kg dry	2.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM
7439-89-6	Iron	18200		mg/kg dry	32.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM
7439-92-1	Lead	5.46		mg/kg dry	0.653	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM
7439-95-4	Magnesium	3840		mg/kg dry	6.53	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM
7439-96-5	Manganese	443		mg/kg dry	0.653	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM
7440-02-0	Nickel	15.5		mg/kg dry	1.31	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM
7440-09-7	Potassium	1390		mg/kg dry	6.53	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM
7782-49-2	Selenium	ND		mg/kg dry	3.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM
7440-22-4	Silver	ND		mg/kg dry	0.653	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM
7440-23-5	Sodium	ND		mg/kg dry	65.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM
7440-28-0	Thallium	ND		mg/kg dry	3.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM
7440-62-2	Vanadium	14.6		mg/kg dry	1.31	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM
7440-66-6	Zinc	41.3		mg/kg dry	3.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/02/2021 08:45	08/03/2021 12:06	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0392	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	08/03/2021 13:45	08/03/2021 15:23	BR

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.653	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	08/02/2021 14:13	08/02/2021 19:44	MAO

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: 414_EP04_13

York Sample ID: 21G1434-05

<u>York Project (SDG) No.</u> 21G1434	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 30, 2021 3:04 pm	<u>Date Received</u> 07/30/2021
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	12.7		mg/kg	0.500	1	Calculation	08/03/2021 13:45	08/03/2021 15:09	PAM
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.653	1	EPA 9014/9010C	08/02/2021 14:13	08/02/2021 20:48	ZTS
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	76.6		%	0.100	1	SM 2540G	08/02/2021 12:47	08/02/2021 15:47	VR
Certifications: CTDOH										



Analytical Batch Summary

Batch ID: BG11734 **Preparation Method:** EPA 3546 SVOA **Prepared By:** SJB

YORK Sample ID	Client Sample ID	Preparation Date
21G1434-01	414_EP13_8.5	07/31/21
21G1434-02	414_EP18_8.5	07/31/21
21G1434-03	414_EP12_8.5	07/31/21
21G1434-04	414_EP17_8.5	07/31/21
21G1434-05	414_EP04_13	07/31/21
BG11734-BLK1	Blank	07/31/21
BG11734-BS1	LCS	07/31/21
BG11734-MS1	Matrix Spike	07/31/21
BG11734-MSD1	Matrix Spike Dup	07/31/21

Batch ID: BH10013 **Preparation Method:** EPA 3050B **Prepared By:** OT

YORK Sample ID	Client Sample ID	Preparation Date
21G1434-01	414_EP13_8.5	08/02/21
21G1434-02	414_EP18_8.5	08/02/21
21G1434-03	414_EP12_8.5	08/02/21
21G1434-04	414_EP17_8.5	08/02/21
21G1434-05	414_EP04_13	08/02/21
BH10013-BLK1	Blank	08/02/21
BH10013-DUP1	Duplicate	08/02/21
BH10013-MS1	Matrix Spike	08/02/21
BH10013-PS1	Post Spike	08/02/21
BH10013-SRM1	Reference	08/02/21

Batch ID: BH10033 **Preparation Method:** % Solids Prep **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
21G1434-01	414_EP13_8.5	08/02/21
21G1434-02	414_EP18_8.5	08/02/21
21G1434-03	414_EP12_8.5	08/02/21
21G1434-04	414_EP17_8.5	08/02/21
21G1434-05	414_EP04_13	08/02/21
BH10033-DUP1	Duplicate	08/02/21

Batch ID: BH10044 **Preparation Method:** Analysis Preparation Soil **Prepared By:** ZTS

YORK Sample ID	Client Sample ID	Preparation Date
21G1434-01	414_EP13_8.5	08/02/21
21G1434-02	414_EP18_8.5	08/02/21
21G1434-03	414_EP12_8.5	08/02/21
21G1434-04	414_EP17_8.5	08/02/21
21G1434-05	414_EP04_13	08/02/21
BH10044-BLK1	Blank	08/02/21
BH10044-DUP1	Duplicate	08/02/21



BH10044-MS1 Matrix Spike 08/02/21
BH10044-SRM1 Reference 08/02/21

Batch ID: BH10045 **Preparation Method:** EPA SW846-3060 **Prepared By:** MAO

YORK Sample ID	Client Sample ID	Preparation Date
21G1434-01	414_EP13_8.5	08/02/21
21G1434-02	414_EP18_8.5	08/02/21
21G1434-03	414_EP12_8.5	08/02/21
21G1434-04	414_EP17_8.5	08/02/21
21G1434-05	414_EP04_13	08/02/21
BH10045-BLK1	Blank	08/02/21
BH10045-DUP1	Duplicate	08/02/21
BH10045-MS1	Matrix Spike	08/02/21
BH10045-SRM1	Reference	08/02/21

Batch ID: BH10067 **Preparation Method:** EPA 3550C **Prepared By:** MAM

YORK Sample ID	Client Sample ID	Preparation Date
21G1434-01	414_EP13_8.5	08/02/21
21G1434-01	414_EP13_8.5	08/02/21
21G1434-02	414_EP18_8.5	08/02/21
21G1434-02	414_EP18_8.5	08/02/21
21G1434-03	414_EP12_8.5	08/02/21
21G1434-03	414_EP12_8.5	08/02/21
21G1434-04	414_EP17_8.5	08/02/21
21G1434-04	414_EP17_8.5	08/02/21
21G1434-05	414_EP04_13	08/02/21
21G1434-05	414_EP04_13	08/02/21
BH10067-BLK1	Blank	08/02/21
BH10067-BLK2	Blank	08/02/21
BH10067-BS1	LCS	08/02/21
BH10067-BS2	LCS	08/02/21

Batch ID: BH10072 **Preparation Method:** EPA 5035A **Prepared By:** LLJ

YORK Sample ID	Client Sample ID	Preparation Date
21G1434-02	414_EP18_8.5	08/02/21
21G1434-03	414_EP12_8.5	08/02/21
21G1434-04	414_EP17_8.5	08/02/21
21G1434-05	414_EP04_13	08/02/21
BH10072-BLK1	Blank	08/02/21
BH10072-BLK2	Blank	08/02/21
BH10072-BLK3	Blank	08/02/21
BH10072-BS1	LCS	08/02/21
BH10072-BSD1	LCS Dup	08/02/21

Batch ID: BH10074 **Preparation Method:** EPA 5035A **Prepared By:** KHA



YORK Sample ID	Client Sample ID	Preparation Date
21G1434-01	414_EP13_8.5	08/03/21
BH10074-BLK1	Blank	08/03/21
BH10074-BLK2	Blank	08/03/21
BH10074-BS1	LCS	08/03/21
BH10074-BSD1	LCS Dup	08/03/21

Batch ID: BH10106 **Preparation Method:** Analysis Preparation **Prepared By:** PAM

YORK Sample ID	Client Sample ID	Preparation Date
21G1434-01	414_EP13_8.5	08/03/21
21G1434-02	414_EP18_8.5	08/03/21
21G1434-03	414_EP12_8.5	08/03/21
21G1434-04	414_EP17_8.5	08/03/21
21G1434-05	414_EP04_13	08/03/21

Batch ID: BH10107 **Preparation Method:** EPA 7473 soil **Prepared By:** BR

YORK Sample ID	Client Sample ID	Preparation Date
21G1434-01	414_EP13_8.5	08/03/21
21G1434-02	414_EP18_8.5	08/03/21
21G1434-03	414_EP12_8.5	08/03/21
21G1434-04	414_EP17_8.5	08/03/21
21G1434-05	414_EP04_13	08/03/21
BH10107-BLK1	Blank	08/03/21
BH10107-DUP1	Duplicate	08/03/21
BH10107-MS1	Matrix Spike	08/03/21
BH10107-SRM1	Reference	08/03/21

Batch ID: BH10127 **Preparation Method:** SPE PFAS Extraction-Soil-EPA 537m **Prepared By:** SG

YORK Sample ID	Client Sample ID	Preparation Date
21G1434-01	414_EP13_8.5	08/03/21
21G1434-02	414_EP18_8.5	08/03/21
21G1434-03	414_EP12_8.5	08/03/21
21G1434-04	414_EP17_8.5	08/03/21
21G1434-05	414_EP04_13	08/03/21
BH10127-BLK1	Blank	08/03/21
BH10127-BS1	LCS	08/03/21
BH10127-MS1	Matrix Spike	08/03/21
BH10127-MSD1	Matrix Spike Dup	08/03/21

Batch ID: BH10173 **Preparation Method:** EPA 3550C **Prepared By:** SJB

YORK Sample ID	Client Sample ID	Preparation Date
21G1434-01	414_EP13_8.5	08/04/21
21G1434-02	414_EP18_8.5	08/04/21
21G1434-03	414_EP12_8.5	08/04/21



21G1434-04	414_EP17_8.5	08/04/21
21G1434-05	414_EP04_13	08/04/21
BH10173-BLK1	Blank	08/04/21
BH10173-BS1	LCS	08/04/21
BH10173-MS1	Matrix Spike	08/04/21
BH10173-MSD1	Matrix Spike Dup	08/04/21



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10072 - EPA 5035A

Blank (BH10072-BLK1)

Blank

Prepared & Analyzed: 08/02/2021

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10072 - EPA 5035A

Blank (BH10072-BLK1)		Blank		Prepared & Analyzed: 08/02/2021							
n-Butylbenzene	ND	0.0050	mg/kg wet								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
<hr/>											
<i>Surrogate: Surr: 1,2-Dichloroethane-d4</i>	<i>46.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>92.2</i>	<i>77-125</i>				
<i>Surrogate: Surr: Toluene-d8</i>	<i>49.6</i>		<i>"</i>	<i>50.0</i>		<i>99.3</i>	<i>85-120</i>				
<i>Surrogate: Surr: p-Bromofluorobenzene</i>	<i>47.8</i>		<i>"</i>	<i>50.0</i>		<i>95.7</i>	<i>76-130</i>				

Blank (BH10072-BLK2)		Holding Blank-21G1374		Prepared & Analyzed: 08/02/2021							
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10072 - EPA 5035A

Blank (BH10072-BLK2) Holding Blank-21G1374 Prepared & Analyzed: 08/02/2021

Bromoform	ND	0.0050	mg/kg wet								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								

Surrogate: SURRE: 1,2-Dichloroethane-d4	47.2		ug/L	50.0		94.5	77-125				
Surrogate: SURRE: Toluene-d8	49.9		"	50.0		99.8	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	48.3		"	50.0		96.6	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10072 - EPA 5035A											
Blank (BH10072-BLK3)	Holding Blank-21G1434								Prepared & Analyzed: 08/02/2021		
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10072 - EPA 5035A

Blank (BH10072-BLK3) Holding Blank-21G1434 Prepared & Analyzed: 08/02/2021

n-Propylbenzene	ND	0.0050	mg/kg wet								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								

<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	46.7		ug/L	50.0		93.4	77-125				
<i>Surrogate: SURR: Toluene-d8</i>	49.5		"	50.0		99.1	85-120				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	47.8		"	50.0		95.6	76-130				

LCS (BH10072-BS1) LCS Prepared & Analyzed: 08/02/2021

1,1,1,2-Tetrachloroethane	54.7		ug/L	50.0		109	75-129				
1,1,1-Trichloroethane	45.0		"	50.0		90.0	71-137				
1,1,2,2-Tetrachloroethane	67.2		"	50.0		134	79-129	High Bias			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	56.5		"	50.0		113	58-146				
1,1,2-Trichloroethane	58.4		"	50.0		117	83-123				
1,1-Dichloroethane	47.9		"	50.0		95.8	75-130				
1,1-Dichloroethylene	47.2		"	50.0		94.4	64-137				
1,2,3-Trichlorobenzene	51.0		"	50.0		102	81-140				
1,2,3-Trichloropropane	55.9		"	50.0		112	81-126				
1,2,4-Trichlorobenzene	52.1		"	50.0		104	80-141				
1,2,4-Trimethylbenzene	52.2		"	50.0		104	84-125				
1,2-Dibromo-3-chloropropane	48.8		"	50.0		97.7	74-142				
1,2-Dibromoethane	57.2		"	50.0		114	86-123				
1,2-Dichlorobenzene	55.0		"	50.0		110	85-122				
1,2-Dichloroethane	47.1		"	50.0		94.1	71-133				
1,2-Dichloropropane	54.3		"	50.0		109	81-122				
1,3,5-Trimethylbenzene	60.5		"	50.0		121	82-126				
1,3-Dichlorobenzene	53.8		"	50.0		108	84-124				
1,4-Dichlorobenzene	54.5		"	50.0		109	84-124				
1,4-Dioxane	934		"	1050		88.9	10-228				
2-Butanone	36.1		"	50.0		72.2	58-147				
2-Hexanone	48.8		"	50.0		97.6	70-139				
4-Methyl-2-pentanone	50.8		"	50.0		102	72-132				
Acetone	27.8		"	50.0		55.7	36-155				
Acrolein	32.6		"	50.0		65.1	10-238				
Acrylonitrile	56.1		"	50.0		112	66-141				
Benzene	53.8		"	50.0		108	77-127				
Bromochloromethane	52.4		"	50.0		105	74-129				
Bromodichloromethane	50.6		"	50.0		101	81-124				
Bromoform	55.2		"	50.0		110	80-136				



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10072 - EPA 5035A											
LCS (BH10072-BS1)	LCS										Prepared & Analyzed: 08/02/2021
Bromomethane	95.8		ug/L	50.0		192	32-177	High Bias			
Carbon disulfide	55.0		"	50.0		110	10-136				
Carbon tetrachloride	44.5		"	50.0		89.0	66-143				
Chlorobenzene	53.4		"	50.0		107	86-120				
Chloroethane	61.7		"	50.0		123	51-142				
Chloroform	49.1		"	50.0		98.1	76-131				
Chloromethane	56.8		"	50.0		114	49-132				
cis-1,2-Dichloroethylene	49.2		"	50.0		98.5	74-132				
cis-1,3-Dichloropropylene	55.9		"	50.0		112	81-129				
Cyclohexane	41.9		"	50.0		83.7	70-130				
Dibromochloromethane	58.0		"	50.0		116	10-200				
Dibromomethane	52.0		"	50.0		104	83-124				
Dichlorodifluoromethane	71.0		"	50.0		142	28-158				
Ethyl Benzene	50.4		"	50.0		101	84-125				
Hexachlorobutadiene	42.6		"	50.0		85.1	83-133				
Isopropylbenzene	49.0		"	50.0		98.0	81-127				
Methyl acetate	48.9		"	50.0		97.8	41-143				
Methyl tert-butyl ether (MTBE)	48.4		"	50.0		96.7	74-131				
Methylcyclohexane	51.8		"	50.0		104	70-130				
Methylene chloride	52.2		"	50.0		104	57-141				
n-Butylbenzene	54.3		"	50.0		109	80-130				
n-Propylbenzene	49.5		"	50.0		98.9	74-136				
o-Xylene	51.6		"	50.0		103	83-123				
p- & m- Xylenes	100		"	100		100	82-128				
p-Isopropyltoluene	49.6		"	50.0		99.2	85-125				
sec-Butylbenzene	50.7		"	50.0		101	83-125				
Styrene	55.4		"	50.0		111	86-126				
tert-Butyl alcohol (TBA)	179		"	250		71.7	70-130				
tert-Butylbenzene	42.5		"	50.0		85.0	80-127				
Tetrachloroethylene	42.5		"	50.0		85.0	80-129				
Toluene	51.9		"	50.0		104	85-121				
trans-1,2-Dichloroethylene	50.7		"	50.0		101	72-132				
trans-1,3-Dichloropropylene	56.8		"	50.0		114	78-132				
Trichloroethylene	46.1		"	50.0		92.2	84-123				
Trichlorofluoromethane	50.1		"	50.0		100	62-140				
Vinyl Chloride	63.1		"	50.0		126	52-130				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>45.1</i>		<i>"</i>	<i>50.0</i>		<i>90.3</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>50.0</i>		<i>"</i>	<i>50.0</i>		<i>99.9</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>49.0</i>		<i>"</i>	<i>50.0</i>		<i>98.0</i>	<i>76-130</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10072 - EPA 5035A											
LCS Dup (BH10072-BSD1)	LCS Dup		Prepared & Analyzed: 08/02/2021								
1,1,1,2-Tetrachloroethane	54.7		ug/L	50.0		109	75-129		0.128	30	
1,1,1-Trichloroethane	40.5		"	50.0		81.1	71-137		10.5	30	
1,1,2,2-Tetrachloroethane	67.1		"	50.0		134	79-129	High Bias	0.0596	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	56.1		"	50.0		112	58-146		0.604	30	
1,1,2-Trichloroethane	58.7		"	50.0		117	83-123		0.427	30	
1,1-Dichloroethane	48.2		"	50.0		96.5	75-130		0.686	30	
1,1-Dichloroethylene	50.5		"	50.0		101	64-137		6.86	30	
1,2,3-Trichlorobenzene	52.4		"	50.0		105	81-140		2.80	30	
1,2,3-Trichloropropane	56.1		"	50.0		112	81-126		0.411	30	
1,2,4-Trichlorobenzene	53.0		"	50.0		106	80-141		1.81	30	
1,2,4-Trimethylbenzene	52.3		"	50.0		105	84-125		0.153	30	
1,2-Dibromo-3-chloropropane	49.2		"	50.0		98.3	74-142		0.633	30	
1,2-Dibromoethane	57.7		"	50.0		115	86-123		0.888	30	
1,2-Dichlorobenzene	56.0		"	50.0		112	85-122		1.79	30	
1,2-Dichloroethane	48.7		"	50.0		97.4	71-133		3.47	30	
1,2-Dichloropropane	54.8		"	50.0		110	81-122		0.862	30	
1,3,5-Trimethylbenzene	61.4		"	50.0		123	82-126		1.33	30	
1,3-Dichlorobenzene	54.8		"	50.0		110	84-124		1.82	30	
1,4-Dichlorobenzene	54.0		"	50.0		108	84-124		0.774	30	
1,4-Dioxane	951		"	1050		90.6	10-228		1.87	30	
2-Butanone	33.4		"	50.0		66.9	58-147		7.71	30	
2-Hexanone	50.6		"	50.0		101	70-139		3.58	30	
4-Methyl-2-pentanone	51.9		"	50.0		104	72-132		2.14	30	
Acetone	27.5		"	50.0		55.0	36-155		1.30	30	
Acrolein	32.8		"	50.0		65.7	10-238		0.917	30	
Acrylonitrile	56.6		"	50.0		113	66-141		0.906	30	
Benzene	54.2		"	50.0		108	77-127		0.611	30	
Bromochloromethane	53.3		"	50.0		107	74-129		1.61	30	
Bromodichloromethane	50.2		"	50.0		100	81-124		0.774	30	
Bromoform	56.5		"	50.0		113	80-136		2.24	30	
Bromomethane	99.6		"	50.0		199	32-177	High Bias	3.85	30	
Carbon disulfide	54.5		"	50.0		109	10-136		0.949	30	
Carbon tetrachloride	44.1		"	50.0		88.2	66-143		0.971	30	
Chlorobenzene	53.4		"	50.0		107	86-120		0.0187	30	
Chloroethane	62.1		"	50.0		124	51-142		0.630	30	
Chloroform	49.1		"	50.0		98.3	76-131		0.143	30	
Chloromethane	56.5		"	50.0		113	49-132		0.512	30	
cis-1,2-Dichloroethylene	49.0		"	50.0		97.9	74-132		0.550	30	
cis-1,3-Dichloropropylene	56.0		"	50.0		112	81-129		0.161	30	
Cyclohexane	42.3		"	50.0		84.6	70-130		1.07	30	
Dibromochloromethane	59.1		"	50.0		118	10-200		1.76	30	
Dibromomethane	51.9		"	50.0		104	83-124		0.115	30	
Dichlorodifluoromethane	71.7		"	50.0		143	28-158		1.02	30	
Ethyl Benzene	50.6		"	50.0		101	84-125		0.396	30	
Hexachlorobutadiene	43.0		"	50.0		85.9	83-133		0.889	30	
Isopropylbenzene	49.0		"	50.0		98.0	81-127		0.0204	30	
Methyl acetate	49.6		"	50.0		99.2	41-143		1.46	30	
Methyl tert-butyl ether (MTBE)	48.3		"	50.0		96.6	74-131		0.103	30	
Methylcyclohexane	51.6		"	50.0		103	70-130		0.329	30	
Methylene chloride	52.8		"	50.0		106	57-141		1.26	30	
n-Butylbenzene	54.8		"	50.0		110	80-130		0.807	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BH10072 - EPA 5035A												
LCS Dup (BH10072-BSD1)	LCS Dup							Prepared & Analyzed: 08/02/2021				
n-Propylbenzene	49.5		ug/L	50.0		99.0	74-136		0.0808	30		
o-Xylene	51.6		"	50.0		103	83-123		0.0388	30		
p- & m- Xylenes	100		"	100		100	82-128		0.230	30		
p-Isopropyltoluene	49.3		"	50.0		98.6	85-125		0.526	30		
sec-Butylbenzene	51.1		"	50.0		102	83-125		0.923	30		
Styrene	56.0		"	50.0		112	86-126		1.09	30		
tert-Butyl alcohol (TBA)	186		"	250		74.5	70-130		3.85	30		
tert-Butylbenzene	43.4		"	50.0		86.8	80-127		2.03	30		
Tetrachloroethylene	43.5		"	50.0		87.0	80-129		2.35	30		
Toluene	51.3		"	50.0		103	85-121		1.18	30		
trans-1,2-Dichloroethylene	51.0		"	50.0		102	72-132		0.531	30		
trans-1,3-Dichloropropylene	56.8		"	50.0		114	78-132		0.0352	30		
Trichloroethylene	46.4		"	50.0		92.8	84-123		0.649	30		
Trichlorofluoromethane	50.2		"	50.0		100	62-140		0.339	30		
Vinyl Chloride	63.0		"	50.0		126	52-130		0.143	30		
Surrogate: SURR: 1,2-Dichloroethane-d4	45.4		"	50.0		90.7	77-125					
Surrogate: SURR: Toluene-d8	49.4		"	50.0		98.8	85-120					
Surrogate: SURR: p-Bromofluorobenzene	48.3		"	50.0		96.7	76-130					

Batch BH10074 - EPA 5035A

Blank (BH10074-BLK1)	Blank							Prepared & Analyzed: 08/03/2021				
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet									
1,1,1-Trichloroethane	ND	0.0050	"									
1,1,2,2-Tetrachloroethane	ND	0.0050	"									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"									
1,1,2-Trichloroethane	ND	0.0050	"									
1,1-Dichloroethane	ND	0.0050	"									
1,1-Dichloroethylene	ND	0.0050	"									
1,2,3-Trichlorobenzene	ND	0.0050	"									
1,2,3-Trichloropropane	ND	0.0050	"									
1,2,4-Trichlorobenzene	ND	0.0050	"									
1,2,4-Trimethylbenzene	ND	0.0050	"									
1,2-Dibromo-3-chloropropane	ND	0.0050	"									
1,2-Dibromoethane	ND	0.0050	"									
1,2-Dichlorobenzene	ND	0.0050	"									
1,2-Dichloroethane	ND	0.0050	"									
1,2-Dichloropropane	ND	0.0050	"									
1,3,5-Trimethylbenzene	ND	0.0050	"									
1,3-Dichlorobenzene	ND	0.0050	"									
1,4-Dichlorobenzene	ND	0.0050	"									
1,4-Dioxane	ND	0.10	"									
2-Butanone	ND	0.0050	"									
2-Hexanone	ND	0.0050	"									
4-Methyl-2-pentanone	ND	0.0050	"									
Acetone	ND	0.010	"									
Acrolein	ND	0.010	"									
Acrylonitrile	ND	0.0050	"									
Benzene	ND	0.0050	"									
Bromochloromethane	ND	0.0050	"									
Bromodichloromethane	ND	0.0050	"									



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10074 - EPA 5035A

Blank (BH10074-BLK1) Blank Prepared & Analyzed: 08/03/2021

Bromoform	ND	0.0050	mg/kg wet								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								

<i>Surrogate: SURRE: 1,2-Dichloroethane-d4</i>	46.1		ug/L	50.0		92.3	77-125				
<i>Surrogate: SURRE: Toluene-d8</i>	49.8		"	50.0		99.5	85-120				
<i>Surrogate: SURRE: p-Bromofluorobenzene</i>	47.3		"	50.0		94.6	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10074 - EPA 5035A

Blank (BH10074-BLK2)	Methanol	Prepared & Analyzed: 08/03/2021									
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10074 - EPA 5035A

Blank (BH10074-BLK2)	Methanol	Prepared & Analyzed: 08/03/2021									
n-Propylbenzene	ND	0.0050	mg/kg wet								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
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Surrogate: SURR: 1,2-Dichloroethane-d4	45.5		ug/L	50.0		91.0	77-125				
Surrogate: SURR: Toluene-d8	49.9		"	50.0		99.7	85-120				
Surrogate: SURR: p-Bromofluorobenzene	47.2		"	50.0		94.5	76-130				

LCS (BH10074-BS1)	LCS	Prepared & Analyzed: 08/03/2021									
1,1,1,2-Tetrachloroethane	47.0		ug/L	50.0		93.9	75-129				
1,1,1-Trichloroethane	38.2		"	50.0		76.4	71-137				
1,1,2,2-Tetrachloroethane	57.1		"	50.0		114	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	49.1		"	50.0		98.2	58-146				
1,1,2-Trichloroethane	50.3		"	50.0		101	83-123				
1,1-Dichloroethane	41.9		"	50.0		83.9	75-130				
1,1-Dichloroethylene	41.4		"	50.0		82.7	64-137				
1,2,3-Trichlorobenzene	45.0		"	50.0		90.0	81-140				
1,2,3-Trichloropropane	48.9		"	50.0		97.8	81-126				
1,2,4-Trichlorobenzene	45.1		"	50.0		90.2	80-141				
1,2,4-Trimethylbenzene	45.1		"	50.0		90.2	84-125				
1,2-Dibromo-3-chloropropane	40.6		"	50.0		81.2	74-142				
1,2-Dibromoethane	49.2		"	50.0		98.3	86-123				
1,2-Dichlorobenzene	48.0		"	50.0		96.0	85-122				
1,2-Dichloroethane	40.8		"	50.0		81.6	71-133				
1,2-Dichloropropane	47.1		"	50.0		94.1	81-122				
1,3,5-Trimethylbenzene	54.0		"	50.0		108	82-126				
1,3-Dichlorobenzene	47.1		"	50.0		94.2	84-124				
1,4-Dichlorobenzene	46.8		"	50.0		93.6	84-124				
1,4-Dioxane	786		"	1050		74.9	10-228				
2-Butanone	29.4		"	50.0		58.8	58-147				
2-Hexanone	41.8		"	50.0		83.7	70-139				
4-Methyl-2-pentanone	43.1		"	50.0		86.3	72-132				
Acetone	24.3		"	50.0		48.7	36-155				
Acrolein	28.8		"	50.0		57.7	10-238				
Acrylonitrile	48.0		"	50.0		95.9	66-141				
Benzene	47.1		"	50.0		94.2	77-127				
Bromochloromethane	46.1		"	50.0		92.2	74-129				
Bromodichloromethane	43.8		"	50.0		87.7	81-124				
Bromoform	47.5		"	50.0		95.0	80-136				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10074 - EPA 5035A											
LCS (BH10074-BS1)	LCS										Prepared & Analyzed: 08/03/2021
Bromomethane	78.4		ug/L	50.0		157	32-177				
Carbon disulfide	47.0		"	50.0		93.9	10-136				
Carbon tetrachloride	39.3		"	50.0		78.7	66-143				
Chlorobenzene	46.4		"	50.0		92.8	86-120				
Chloroethane	53.6		"	50.0		107	51-142				
Chloroform	43.5		"	50.0		87.0	76-131				
Chloromethane	47.3		"	50.0		94.6	49-132				
cis-1,2-Dichloroethylene	43.0		"	50.0		85.9	74-132				
cis-1,3-Dichloropropylene	47.6		"	50.0		95.1	81-129				
Cyclohexane	37.8		"	50.0		75.6	70-130				
Dibromochloromethane	50.5		"	50.0		101	10-200				
Dibromomethane	44.6		"	50.0		89.2	83-124				
Dichlorodifluoromethane	51.8		"	50.0		104	28-158				
Ethyl Benzene	44.2		"	50.0		88.4	84-125				
Hexachlorobutadiene	37.6		"	50.0		75.3	83-133	Low Bias			
Isopropylbenzene	43.0		"	50.0		86.0	81-127				
Methyl acetate	44.0		"	50.0		88.0	41-143				
Methyl tert-butyl ether (MTBE)	41.1		"	50.0		82.1	74-131				
Methylcyclohexane	45.8		"	50.0		91.6	70-130				
Methylene chloride	45.3		"	50.0		90.5	57-141				
n-Butylbenzene	47.6		"	50.0		95.2	80-130				
n-Propylbenzene	43.0		"	50.0		86.0	74-136				
o-Xylene	44.6		"	50.0		89.3	83-123				
p- & m- Xylenes	86.9		"	100		86.9	82-128				
p-Isopropyltoluene	43.2		"	50.0		86.3	85-125				
sec-Butylbenzene	44.6		"	50.0		89.2	83-125				
Styrene	48.0		"	50.0		96.0	86-126				
tert-Butyl alcohol (TBA)	162		"	250		64.8	70-130	Low Bias			
tert-Butylbenzene	37.9		"	50.0		75.8	80-127	Low Bias			
Tetrachloroethylene	37.3		"	50.0		74.5	80-129	Low Bias			
Toluene	44.8		"	50.0		89.6	85-121				
trans-1,2-Dichloroethylene	44.4		"	50.0		88.8	72-132				
trans-1,3-Dichloropropylene	47.9		"	50.0		95.8	78-132				
Trichloroethylene	40.0		"	50.0		80.1	84-123	Low Bias			
Trichlorofluoromethane	43.2		"	50.0		86.3	62-140				
Vinyl Chloride	52.0		"	50.0		104	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	45.6		"	50.0		91.2	77-125				
Surrogate: SURR: Toluene-d8	49.8		"	50.0		99.5	85-120				
Surrogate: SURR: p-Bromofluorobenzene	48.6		"	50.0		97.2	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10074 - EPA 5035A											
LCS Dup (BH10074-BSD1)	LCS Dup										Prepared & Analyzed: 08/03/2021
1,1,1,2-Tetrachloroethane	52.9		ug/L	50.0		106	75-129		11.9	30	
1,1,1-Trichloroethane	45.2		"	50.0		90.3	71-137		16.7	30	
1,1,2,2-Tetrachloroethane	65.0		"	50.0		130	79-129	High Bias	12.9	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55.3		"	50.0		111	58-146		11.8	30	
1,1,2-Trichloroethane	58.2		"	50.0		116	83-123		14.7	30	
1,1-Dichloroethane	47.7		"	50.0		95.5	75-130		12.9	30	
1,1-Dichloroethylene	44.8		"	50.0		89.7	64-137		8.05	30	
1,2,3-Trichlorobenzene	48.6		"	50.0		97.2	81-140		7.70	30	
1,2,3-Trichloropropane	54.6		"	50.0		109	81-126		11.0	30	
1,2,4-Trichlorobenzene	50.5		"	50.0		101	80-141		11.3	30	
1,2,4-Trimethylbenzene	49.6		"	50.0		99.3	84-125		9.59	30	
1,2-Dibromo-3-chloropropane	45.6		"	50.0		91.2	74-142		11.7	30	
1,2-Dibromoethane	56.8		"	50.0		114	86-123		14.4	30	
1,2-Dichlorobenzene	53.2		"	50.0		106	85-122		10.4	30	
1,2-Dichloroethane	46.7		"	50.0		93.4	71-133		13.5	30	
1,2-Dichloropropane	53.9		"	50.0		108	81-122		13.5	30	
1,3,5-Trimethylbenzene	58.9		"	50.0		118	82-126		8.79	30	
1,3-Dichlorobenzene	52.2		"	50.0		104	84-124		10.1	30	
1,4-Dichlorobenzene	52.3		"	50.0		105	84-124		11.1	30	
1,4-Dioxane	1050		"	1050		99.9	10-228		28.6	30	
2-Butanone	36.9		"	50.0		73.9	58-147		22.7	30	
2-Hexanone	48.2		"	50.0		96.5	70-139		14.2	30	
4-Methyl-2-pentanone	51.1		"	50.0		102	72-132		16.9	30	
Acetone	26.9		"	50.0		53.8	36-155		9.92	30	
Acrolein	32.4		"	50.0		64.8	10-238		11.7	30	
Acrylonitrile	54.7		"	50.0		109	66-141		13.1	30	
Benzene	53.0		"	50.0		106	77-127		11.7	30	
Bromochloromethane	52.8		"	50.0		106	74-129		13.5	30	
Bromodichloromethane	50.5		"	50.0		101	81-124		14.1	30	
Bromoform	53.6		"	50.0		107	80-136		12.0	30	
Bromomethane	90.6		"	50.0		181	32-177	High Bias	14.4	30	
Carbon disulfide	53.8		"	50.0		108	10-136		13.5	30	
Carbon tetrachloride	43.6		"	50.0		87.3	66-143		10.4	30	
Chlorobenzene	51.7		"	50.0		103	86-120		10.8	30	
Chloroethane	60.7		"	50.0		121	51-142		12.4	30	
Chloroform	48.5		"	50.0		97.0	76-131		10.8	30	
Chloromethane	57.8		"	50.0		116	49-132		20.0	30	
cis-1,2-Dichloroethylene	49.4		"	50.0		98.7	74-132		13.9	30	
cis-1,3-Dichloropropylene	54.7		"	50.0		109	81-129		14.1	30	
Cyclohexane	41.7		"	50.0		83.3	70-130		9.72	30	
Dibromochloromethane	58.0		"	50.0		116	10-200		13.9	30	
Dibromomethane	52.0		"	50.0		104	83-124		15.3	30	
Dichlorodifluoromethane	67.4		"	50.0		135	28-158		26.3	30	
Ethyl Benzene	49.1		"	50.0		98.1	84-125		10.5	30	
Hexachlorobutadiene	41.0		"	50.0		82.0	83-133	Low Bias	8.55	30	
Isopropylbenzene	47.0		"	50.0		94.0	81-127		8.89	30	
Methyl acetate	49.8		"	50.0		99.7	41-143		12.5	30	
Methyl tert-butyl ether (MTBE)	46.4		"	50.0		92.7	74-131		12.1	30	
Methylcyclohexane	51.0		"	50.0		102	70-130		10.7	30	
Methylene chloride	51.3		"	50.0		103	57-141		12.5	30	
n-Butylbenzene	48.2		"	50.0		96.4	80-130		1.23	30	



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	
		Limit			Result				RPD	Limit
Batch BH10074 - EPA 5035A										
LCS Dup (BH10074-BSD1)	LCS Dup								Prepared & Analyzed: 08/03/2021	
n-Propylbenzene	46.9		ug/L	50.0		93.8	74-136		8.74	30
o-Xylene	50.4		"	50.0		101	83-123		12.1	30
p- & m- Xylenes	97.5		"	100		97.5	82-128		11.5	30
p-Isopropyltoluene	47.4		"	50.0		94.7	85-125		9.30	30
sec-Butylbenzene	48.0		"	50.0		96.0	83-125		7.35	30
Styrene	55.0		"	50.0		110	86-126		13.5	30
tert-Butyl alcohol (TBA)	181		"	250		72.4	70-130		11.0	30
tert-Butylbenzene	40.6		"	50.0		81.1	80-127		6.78	30
Tetrachloroethylene	41.9		"	50.0		83.8	80-129		11.7	30
Toluene	50.9		"	50.0		102	85-121		12.8	30
trans-1,2-Dichloroethylene	50.1		"	50.0		100	72-132		12.0	30
trans-1,3-Dichloropropylene	55.8		"	50.0		112	78-132		15.3	30
Trichloroethylene	45.5		"	50.0		90.9	84-123		12.7	30
Trichlorofluoromethane	49.0		"	50.0		97.9	62-140		12.6	30
Vinyl Chloride	61.3		"	50.0		123	52-130		16.3	30
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>45.3</i>		<i>"</i>	<i>50.0</i>		<i>90.7</i>	<i>77-125</i>			
<i>Surrogate: SURR: Toluene-d8</i>	<i>49.9</i>		<i>"</i>	<i>50.0</i>		<i>99.9</i>	<i>85-120</i>			
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>47.7</i>		<i>"</i>	<i>50.0</i>		<i>95.4</i>	<i>76-130</i>			



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11734 - EPA 3546 SVOA

Blank (BG11734-BLK1)	Blank										
											Prepared: 07/31/2021 Analyzed: 08/02/2021
1,1-Biphenyl	ND	0.0409	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0817	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0409	"								
2,3,4,6-Tetrachlorophenol	ND	0.0817	"								
2,4,5-Trichlorophenol	ND	0.0409	"								
2,4,6-Trichlorophenol	ND	0.0409	"								
2,4-Dichlorophenol	ND	0.0409	"								
2,4-Dimethylphenol	ND	0.0409	"								
2,4-Dinitrophenol	ND	0.0817	"								
2,4-Dinitrotoluene	ND	0.0409	"								
2,6-Dinitrotoluene	ND	0.0409	"								
2-Chloronaphthalene	ND	0.0409	"								
2-Chlorophenol	ND	0.0409	"								
2-Methylnaphthalene	ND	0.0409	"								
2-Methylphenol	ND	0.0409	"								
2-Nitroaniline	ND	0.0817	"								
2-Nitrophenol	ND	0.0409	"								
3- & 4-Methylphenols	ND	0.0409	"								
3,3-Dichlorobenzidine	ND	0.0409	"								
3-Nitroaniline	ND	0.0817	"								
4,6-Dinitro-2-methylphenol	ND	0.0817	"								
4-Bromophenyl phenyl ether	ND	0.0409	"								
4-Chloro-3-methylphenol	ND	0.0409	"								
4-Chloroaniline	ND	0.0409	"								
4-Chlorophenyl phenyl ether	ND	0.0409	"								
4-Nitroaniline	ND	0.0817	"								
4-Nitrophenol	ND	0.0817	"								
Acenaphthene	ND	0.0409	"								
Acenaphthylene	ND	0.0409	"								
Acetophenone	ND	0.0409	"								
Aniline	ND	0.164	"								
Anthracene	ND	0.0409	"								
Atrazine	ND	0.0409	"								
Benzaldehyde	ND	0.0409	"								
Benzidine	ND	0.164	"								
Benzo(a)anthracene	ND	0.0409	"								
Benzo(a)pyrene	ND	0.0409	"								
Benzo(b)fluoranthene	ND	0.0409	"								
Benzo(g,h,i)perylene	ND	0.0409	"								
Benzo(k)fluoranthene	ND	0.0409	"								
Benzoic acid	ND	0.0409	"								
Benzyl alcohol	ND	0.0409	"								
Benzyl butyl phthalate	ND	0.0409	"								
Bis(2-chloroethoxy)methane	ND	0.0409	"								
Bis(2-chloroethyl)ether	ND	0.0409	"								
Bis(2-chloroisopropyl)ether	ND	0.0409	"								
Bis(2-ethylhexyl)phthalate	ND	0.0409	"								
Caprolactam	ND	0.0817	"								
Carbazole	ND	0.0409	"								
Chrysene	ND	0.0409	"								
Dibenzo(a,h)anthracene	ND	0.0409	"								



Semivolatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11734 - EPA 3546 SVOA

Blank (BG11734-BLK1) Blank Prepared: 07/31/2021 Analyzed: 08/02/2021

Dibenzofuran	ND	0.0409	mg/kg wet								
Diethyl phthalate	ND	0.0409	"								
Dimethyl phthalate	ND	0.0409	"								
Di-n-butyl phthalate	ND	0.0409	"								
Di-n-octyl phthalate	ND	0.0409	"								
Diphenylamine	ND	0.0817	"								
Fluoranthene	ND	0.0409	"								
Fluorene	ND	0.0409	"								
Hexachlorobenzene	ND	0.0409	"								
Hexachlorobutadiene	ND	0.0409	"								
Hexachlorocyclopentadiene	ND	0.0409	"								
Hexachloroethane	ND	0.0409	"								
Indeno(1,2,3-cd)pyrene	ND	0.0409	"								
Isophorone	ND	0.0409	"								
Naphthalene	ND	0.0409	"								
Nitrobenzene	ND	0.0409	"								
N-Nitrosodimethylamine	ND	0.0409	"								
N-nitroso-di-n-propylamine	ND	0.0409	"								
N-Nitrosodiphenylamine	ND	0.0409	"								
Pentachlorophenol	ND	0.0409	"								
Phenanthrene	ND	0.0409	"								
Phenol	ND	0.0409	"								
Pyrene	ND	0.0409	"								
Pyridine	ND	0.164	"								
<i>Surrogate: SURR: 2-Fluorophenol</i>	<i>1.33</i>		<i>"</i>	<i>1.63</i>		<i>81.2</i>	<i>20-108</i>				
<i>Surrogate: SURR: Phenol-d5</i>	<i>1.13</i>		<i>"</i>	<i>1.63</i>		<i>69.5</i>	<i>23-114</i>				
<i>Surrogate: SURR: Nitrobenzene-d5</i>	<i>0.646</i>		<i>"</i>	<i>0.817</i>		<i>79.0</i>	<i>22-108</i>				
<i>Surrogate: SURR: 2-Fluorobiphenyl</i>	<i>0.654</i>		<i>"</i>	<i>0.817</i>		<i>80.0</i>	<i>21-113</i>				
<i>Surrogate: SURR: 2,4,6-Tribromophenol</i>	<i>1.92</i>		<i>"</i>	<i>1.63</i>		<i>117</i>	<i>19-110</i>				
<i>Surrogate: SURR: Terphenyl-d14</i>	<i>0.732</i>		<i>"</i>	<i>0.817</i>		<i>89.6</i>	<i>24-116</i>				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11734 - EPA 3546 SVOA

LCS (BG11734-BS1)	LCS	Prepared: 07/31/2021 Analyzed: 08/02/2021									
1,1-Biphenyl	0.706	0.0410	mg/kg wet	0.820		86.1	18-111				
1,2,4,5-Tetrachlorobenzene	0.693	0.0819	"	0.820		84.5	21-131				
1,2-Diphenylhydrazine (as Azobenzene)	0.564	0.0410	"	0.820		68.8	17-137				
2,3,4,6-Tetrachlorophenol	0.730	0.0819	"	0.820		89.0	30-130				
2,4,5-Trichlorophenol	0.752	0.0410	"	0.820		91.8	27-118				
2,4,6-Trichlorophenol	0.746	0.0410	"	0.820		91.0	31-120				
2,4-Dichlorophenol	0.718	0.0410	"	0.820		87.6	20-127				
2,4-Dimethylphenol	0.663	0.0410	"	0.820		80.9	14-132				
2,4-Dinitrophenol	0.181	0.0819	"	0.820		22.0	10-171				
2,4-Dinitrotoluene	0.747	0.0410	"	0.820		91.2	34-131				
2,6-Dinitrotoluene	0.801	0.0410	"	0.820		97.8	31-128				
2-Chloronaphthalene	0.664	0.0410	"	0.820		81.0	31-117				
2-Chlorophenol	0.630	0.0410	"	0.820		76.8	33-113				
2-Methylnaphthalene	0.708	0.0410	"	0.820		86.3	12-138				
2-Methylphenol	0.597	0.0410	"	0.820		72.9	10-136				
2-Nitroaniline	0.733	0.0819	"	0.820		89.5	27-132				
2-Nitrophenol	0.808	0.0410	"	0.820		98.5	17-129				
3- & 4-Methylphenols	0.508	0.0410	"	0.820		62.0	29-103				
3,3-Dichlorobenzidine	0.659	0.0410	"	0.820		80.4	22-149				
3-Nitroaniline	0.725	0.0819	"	0.820		88.4	20-133				
4,6-Dinitro-2-methylphenol	0.266	0.0819	"	0.820		32.4	10-143				
4-Bromophenyl phenyl ether	0.709	0.0410	"	0.820		86.4	29-120				
4-Chloro-3-methylphenol	0.634	0.0410	"	0.820		77.4	24-129				
4-Chloroaniline	0.575	0.0410	"	0.820		70.2	10-132				
4-Chlorophenyl phenyl ether	0.645	0.0410	"	0.820		78.7	27-124				
4-Nitroaniline	0.674	0.0819	"	0.820		82.2	16-128				
4-Nitrophenol	0.668	0.0819	"	0.820		81.4	10-141				
Acenaphthene	0.667	0.0410	"	0.820		81.3	30-121				
Acenaphthylene	0.662	0.0410	"	0.820		80.7	30-115				
Acetophenone	0.557	0.0410	"	0.820		68.0	20-112				
Aniline	0.471	0.164	"	0.820		57.5	10-119				
Anthracene	0.714	0.0410	"	0.820		87.1	34-118				
Atrazine	0.691	0.0410	"	0.820		84.3	26-112				
Benzaldehyde	0.601	0.0410	"	0.820		73.4	21-100				
Benzo(a)anthracene	0.709	0.0410	"	0.820		86.5	32-122				
Benzo(a)pyrene	0.759	0.0410	"	0.820		92.6	29-133				
Benzo(b)fluoranthene	0.734	0.0410	"	0.820		89.6	25-133				
Benzo(g,h,i)perylene	0.685	0.0410	"	0.820		83.6	10-143				
Benzo(k)fluoranthene	0.736	0.0410	"	0.820		89.8	25-128				
Benzoic acid	0.664	0.0410	"	0.820		81.0	10-140				
Benzyl alcohol	0.551	0.0410	"	0.820		67.2	30-115				
Benzyl butyl phthalate	0.610	0.0410	"	0.820		74.4	26-126				
Bis(2-chloroethoxy)methane	0.573	0.0410	"	0.820		69.9	19-132				
Bis(2-chloroethyl)ether	0.509	0.0410	"	0.820		62.1	19-125				
Bis(2-chloroisopropyl)ether	0.419	0.0410	"	0.820		51.2	20-135				
Bis(2-ethylhexyl)phthalate	0.597	0.0410	"	0.820		72.9	10-155				
Caprolactam	0.689	0.0819	"	0.820		84.0	10-127				
Carbazole	0.709	0.0410	"	0.820		86.5	35-123				
Chrysene	0.708	0.0410	"	0.820		86.4	32-123				
Dibenzo(a,h)anthracene	0.702	0.0410	"	0.820		85.6	10-136				
Dibenzofuran	0.677	0.0410	"	0.820		82.6	29-121				



Semivolatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11734 - EPA 3546 SVOA

LCS (BG11734-BS1)	LCS	Prepared: 07/31/2021 Analyzed: 08/02/2021									
Diethyl phthalate	0.607	0.0410	mg/kg wet	0.820		74.0	34-116				
Dimethyl phthalate	0.607	0.0410	"	0.820		74.1	35-124				
Di-n-butyl phthalate	0.631	0.0410	"	0.820		77.0	31-116				
Di-n-octyl phthalate	0.621	0.0410	"	0.820		75.7	26-136				
Diphenylamine	0.801	0.0819	"	0.820		97.8	40-140				
Fluoranthene	0.694	0.0410	"	0.820		84.7	33-122				
Fluorene	0.680	0.0410	"	0.820		82.9	29-123				
Hexachlorobenzene	0.576	0.0410	"	0.820		70.3	21-124				
Hexachlorobutadiene	0.660	0.0410	"	0.820		80.5	10-149				
Hexachlorocyclopentadiene	0.243	0.0410	"	0.820		29.6	10-129				
Hexachloroethane	0.565	0.0410	"	0.820		69.0	28-108				
Indeno(1,2,3-cd)pyrene	0.701	0.0410	"	0.820		85.5	10-135				
Isophorone	0.561	0.0410	"	0.820		68.5	20-132				
Naphthalene	0.673	0.0410	"	0.820		82.1	23-124				
Nitrobenzene	0.611	0.0410	"	0.820		74.5	13-132				
N-Nitrosodimethylamine	0.438	0.0410	"	0.820		53.4	11-129				
N-nitroso-di-n-propylamine	0.465	0.0410	"	0.820		56.7	24-119				
N-Nitrosodiphenylamine	0.745	0.0410	"	0.820		90.9	22-152				
Pentachlorophenol	0.569	0.0410	"	0.820		69.4	10-139				
Phenanthrene	0.654	0.0410	"	0.820		79.8	33-123				
Phenol	0.623	0.0410	"	0.820		76.0	23-115				
Pyrene	0.670	0.0410	"	0.820		81.7	24-130				
Pyridine	0.377	0.164	"	0.820		46.0	10-91				
Surrogate: SURR: 2-Fluorophenol	1.25		"	1.64		76.1	20-108				
Surrogate: SURR: Phenol-d5	1.13		"	1.64		68.7	23-114				
Surrogate: SURR: Nitrobenzene-d5	0.640		"	0.820		78.1	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	0.669		"	0.820		81.6	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1.86		"	1.64		113	19-110				
Surrogate: SURR: Terphenyl-d14	0.691		"	0.820		84.3	24-116				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11734 - EPA 3546 SVOA

Matrix Spike (BG11734-MS1) Matrix Spike *Source sample: 21G1127-01 (Matrix Spike) Prepared: 07/31/2021 Analyzed: 08/02/2021

1,1-Biphenyl	0.663	0.0847	mg/kg dry	0.847	ND	78.3	10-130				
1,2,4,5-Tetrachlorobenzene	0.679	0.169	"	0.847	ND	80.2	10-133				
1,2-Diphenylhydrazine (as Azobenzene)	0.590	0.0847	"	0.847	ND	69.7	10-144				
2,3,4,6-Tetrachlorophenol	0.651	0.169	"	0.847	ND	76.9	30-130				
2,4,5-Trichlorophenol	0.740	0.0847	"	0.847	ND	87.4	10-127				
2,4,6-Trichlorophenol	0.713	0.0847	"	0.847	ND	84.2	10-132				
2,4-Dichlorophenol	0.774	0.0847	"	0.847	ND	91.4	10-128				
2,4-Dimethylphenol	0.716	0.0847	"	0.847	ND	84.6	10-137				
2,4-Dinitrophenol	0.307	0.169	"	0.847	ND	36.2	10-171				
2,4-Dinitrotoluene	0.787	0.0847	"	0.847	ND	93.0	16-135				
2,6-Dinitrotoluene	0.790	0.0847	"	0.847	ND	93.3	18-131				
2-Chloronaphthalene	0.658	0.0847	"	0.847	ND	77.8	10-129				
2-Chlorophenol	0.650	0.0847	"	0.847	ND	76.7	15-116				
2-Methylnaphthalene	0.715	0.0847	"	0.847	ND	84.4	10-147				
2-Methylphenol	0.566	0.0847	"	0.847	ND	66.8	10-136				
2-Nitroaniline	0.747	0.169	"	0.847	ND	88.2	10-137				
2-Nitrophenol	0.793	0.0847	"	0.847	ND	93.7	10-129				
3- & 4-Methylphenols	0.513	0.0847	"	0.847	ND	60.6	10-123				
3,3-Dichlorobenzidine	0.696	0.0847	"	0.847	ND	82.2	10-155				
3-Nitroaniline	0.747	0.169	"	0.847	ND	88.2	12-133				
4,6-Dinitro-2-methylphenol	0.453	0.169	"	0.847	ND	53.5	10-155				
4-Bromophenyl phenyl ether	0.718	0.0847	"	0.847	ND	84.8	14-128				
4-Chloro-3-methylphenol	0.654	0.0847	"	0.847	ND	77.2	10-134				
4-Chloroaniline	0.650	0.0847	"	0.847	ND	76.7	10-145				
4-Chlorophenyl phenyl ether	0.671	0.0847	"	0.847	ND	79.2	14-130				
4-Nitroaniline	0.722	0.169	"	0.847	ND	85.3	10-147				
4-Nitrophenol	0.597	0.169	"	0.847	ND	70.5	10-137				
Acenaphthene	0.681	0.0847	"	0.847	ND	80.5	10-146				
Acenaphthylene	0.692	0.0847	"	0.847	ND	81.7	10-134				
Acetophenone	0.525	0.0847	"	0.847	ND	62.0	10-116				
Aniline	0.549	0.339	"	0.847	ND	64.9	10-123				
Anthracene	0.748	0.0847	"	0.847	ND	88.3	10-142				
Atrazine	0.683	0.0847	"	0.847	ND	80.6	19-115				
Benzaldehyde	0.560	0.0847	"	0.847	ND	66.2	10-125				
Benzo(a)anthracene	0.765	0.0847	"	0.847	ND	90.4	10-158				
Benzo(a)pyrene	0.848	0.0847	"	0.847	ND	100	10-180				
Benzo(b)fluoranthene	0.792	0.0847	"	0.847	ND	93.5	10-200				
Benzo(g,h,i)perylene	0.845	0.0847	"	0.847	ND	99.8	10-138				
Benzo(k)fluoranthene	0.803	0.0847	"	0.847	ND	94.8	10-197				
Benzoic acid	0.419	0.0847	"	0.847	ND	49.4	10-166				
Benzyl alcohol	0.578	0.0847	"	0.847	ND	68.2	12-124				
Benzyl butyl phthalate	0.738	0.0847	"	0.847	ND	87.1	10-154				
Bis(2-chloroethoxy)methane	0.602	0.0847	"	0.847	ND	71.1	10-132				
Bis(2-chloroethyl)ether	0.514	0.0847	"	0.847	ND	60.7	10-119				
Bis(2-chloroisopropyl)ether	0.436	0.0847	"	0.847	ND	51.5	10-139				
Bis(2-ethylhexyl)phthalate	0.671	0.0847	"	0.847	ND	79.2	10-167				
Caprolactam	0.686	0.169	"	0.847	ND	81.0	10-132				
Carbazole	0.747	0.0847	"	0.847	ND	88.2	10-167				
Chrysene	0.781	0.0847	"	0.847	ND	92.2	10-156				
Dibenzo(a,h)anthracene	0.816	0.0847	"	0.847	ND	96.3	10-137				
Dibenzofuran	0.696	0.0847	"	0.847	ND	82.2	10-147				



Semivolatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11734 - EPA 3546 SVOA

Matrix Spike (BG11734-MS1)	Matrix Spike	*Source sample: 21G1127-01 (Matrix Spike)					Prepared: 07/31/2021 Analyzed: 08/02/2021				
Diethyl phthalate	0.657	0.0847	mg/kg dry	0.847	ND	77.6	20-120				
Dimethyl phthalate	0.659	0.0847	"	0.847	ND	77.8	18-131				
Di-n-butyl phthalate	0.690	0.0847	"	0.847	ND	81.5	10-137				
Di-n-octyl phthalate	0.684	0.0847	"	0.847	ND	80.8	10-180				
Diphenylamine	0.839	0.169	"	0.847	ND	99.1	40-140				
Fluoranthene	0.711	0.0847	"	0.847	ND	83.9	10-160				
Fluorene	0.718	0.0847	"	0.847	ND	84.8	10-157				
Hexachlorobenzene	0.623	0.0847	"	0.847	ND	73.5	10-137				
Hexachlorobutadiene	0.698	0.0847	"	0.847	ND	82.5	10-132				
Hexachlorocyclopentadiene	0.297	0.0847	"	0.847	ND	35.1	10-106				
Hexachloroethane	0.571	0.0847	"	0.847	ND	67.4	10-110				
Indeno(1,2,3-cd)pyrene	0.832	0.0847	"	0.847	ND	98.2	10-144				
Isophorone	0.602	0.0847	"	0.847	ND	71.0	10-132				
Naphthalene	0.689	0.0847	"	0.847	ND	81.4	10-141				
Nitrobenzene	0.633	0.0847	"	0.847	ND	74.8	10-131				
N-Nitrosodimethylamine	0.460	0.0847	"	0.847	ND	54.3	10-126				
N-nitroso-di-n-propylamine	0.478	0.0847	"	0.847	ND	56.5	10-125				
N-Nitrosodiphenylamine	0.826	0.0847	"	0.847	ND	97.5	10-177				
Pentachlorophenol	0.404	0.0847	"	0.847	ND	47.7	10-153				
Phenanthrene	0.682	0.0847	"	0.847	ND	80.6	10-148				
Phenol	0.633	0.0847	"	0.847	ND	74.8	10-126				
Pyrene	0.744	0.0847	"	0.847	ND	87.9	10-165				
Pyridine	0.404	0.339	"	0.847	ND	47.8	10-83				
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Surrogate: SURR: 2-Fluorophenol	1.20		"	1.69		70.6	20-108				
Surrogate: SURR: Phenol-d5	1.04		"	1.69		61.6	23-114				
Surrogate: SURR: Nitrobenzene-d5	0.662		"	0.847		78.2	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	0.643		"	0.847		75.9	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1.65		"	1.69		97.4	19-110				
Surrogate: SURR: Terphenyl-d14	0.754		"	0.847		89.0	24-116				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG11734 - EPA 3546 SVOA											
Matrix Spike Dup (BG11734-1 Matrix Spike Dup) Source sample: 21G1127-01 (Matrix Spike Dup)						Prepared: 07/31/2021 Analyzed: 08/02/2021					
1,1-Biphenyl	0.625	0.0845	mg/kg dry	0.844	ND	74.0	10-130		6.00	30	
1,2,4,5-Tetrachlorobenzene	0.659	0.169	"	0.844	ND	78.1	10-133		2.96	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.554	0.0845	"	0.844	ND	65.6	10-144		6.36	30	
2,3,4,6-Tetrachlorophenol	0.606	0.169	"	0.844	ND	71.8	30-130		7.11	30	
2,4,5-Trichlorophenol	0.694	0.0845	"	0.844	ND	82.2	10-127		6.46	30	
2,4,6-Trichlorophenol	0.683	0.0845	"	0.844	ND	80.9	10-132		4.40	30	
2,4-Dichlorophenol	0.673	0.0845	"	0.844	ND	79.8	10-128		14.0	30	
2,4-Dimethylphenol	0.675	0.0845	"	0.844	ND	80.0	10-137		5.87	30	
2,4-Dinitrophenol	0.346	0.169	"	0.844	ND	41.0	10-171		11.9	30	
2,4-Dinitrotoluene	0.693	0.0845	"	0.844	ND	82.2	16-135		12.7	30	
2,6-Dinitrotoluene	0.795	0.0845	"	0.844	ND	94.2	18-131		0.694	30	
2-Chloronaphthalene	0.627	0.0845	"	0.844	ND	74.2	10-129		4.96	30	
2-Chlorophenol	0.623	0.0845	"	0.844	ND	73.8	15-116		4.16	30	
2-Methylnaphthalene	0.693	0.0845	"	0.844	ND	82.2	10-147		3.02	30	
2-Methylphenol	0.538	0.0845	"	0.844	ND	63.8	10-136		4.99	30	
2-Nitroaniline	0.767	0.169	"	0.844	ND	90.9	10-137		2.62	30	
2-Nitrophenol	0.735	0.0845	"	0.844	ND	87.1	10-129		7.59	30	
3- & 4-Methylphenols	0.493	0.0845	"	0.844	ND	58.4	10-123		3.96	30	
3,3-Dichlorobenzidine	0.591	0.0845	"	0.844	ND	70.1	10-155		16.3	30	
3-Nitroaniline	0.714	0.169	"	0.844	ND	84.6	12-133		4.49	30	
4,6-Dinitro-2-methylphenol	0.465	0.169	"	0.844	ND	55.1	10-155		2.62	30	
4-Bromophenyl phenyl ether	0.678	0.0845	"	0.844	ND	80.3	14-128		5.76	30	
4-Chloro-3-methylphenol	0.605	0.0845	"	0.844	ND	71.7	10-134		7.74	30	
4-Chloroaniline	0.592	0.0845	"	0.844	ND	70.2	10-145		9.26	30	
4-Chlorophenyl phenyl ether	0.626	0.0845	"	0.844	ND	74.2	14-130		6.90	30	
4-Nitroaniline	0.687	0.169	"	0.844	ND	81.4	10-147		4.94	30	
4-Nitrophenol	0.559	0.169	"	0.844	ND	66.2	10-137		6.53	30	
Acenaphthene	0.682	0.0845	"	0.844	ND	80.8	10-146		0.0673	30	
Acenaphthylene	0.658	0.0845	"	0.844	ND	78.0	10-134		4.94	30	
Acetophenone	0.529	0.0845	"	0.844	ND	62.6	10-116		0.697	30	
Aniline	0.513	0.338	"	0.844	ND	60.8	10-123		6.82	30	
Anthracene	0.682	0.0845	"	0.844	ND	80.8	10-142		9.22	30	
Atrazine	0.623	0.0845	"	0.844	ND	73.8	19-115		9.24	30	
Benzaldehyde	0.541	0.0845	"	0.844	ND	64.1	10-125		3.52	30	
Benzo(a)anthracene	0.674	0.0845	"	0.844	ND	79.8	10-158		12.7	30	
Benzo(a)pyrene	0.729	0.0845	"	0.844	ND	86.3	10-180		15.2	30	
Benzo(b)fluoranthene	0.681	0.0845	"	0.844	ND	80.6	10-200		15.1	30	
Benzo(g,h,i)perylene	0.741	0.0845	"	0.844	ND	87.8	10-138		13.1	30	
Benzo(k)fluoranthene	0.693	0.0845	"	0.844	ND	82.2	10-197		14.6	30	
Benzoic acid	0.473	0.0845	"	0.844	ND	56.0	10-166		12.1	30	
Benzyl alcohol	0.541	0.0845	"	0.844	ND	64.1	12-124		6.62	30	
Benzyl butyl phthalate	0.647	0.0845	"	0.844	ND	76.7	10-154		13.0	30	
Bis(2-chloroethoxy)methane	0.569	0.0845	"	0.844	ND	67.4	10-132		5.64	30	
Bis(2-chloroethyl)ether	0.556	0.0845	"	0.844	ND	65.9	10-119		7.88	30	
Bis(2-chloroisopropyl)ether	0.425	0.0845	"	0.844	ND	50.4	10-139		2.53	30	
Bis(2-ethylhexyl)phthalate	0.609	0.0845	"	0.844	ND	72.2	10-167		9.63	30	
Caprolactam	0.635	0.169	"	0.844	ND	75.2	10-132		7.71	30	
Carbazole	0.691	0.0845	"	0.844	ND	81.8	10-167		7.85	30	
Chrysene	0.691	0.0845	"	0.844	ND	81.9	10-156		12.2	30	
Dibenzo(a,h)anthracene	0.724	0.0845	"	0.844	ND	85.8	10-137		11.8	30	
Dibenzofuran	0.672	0.0845	"	0.844	ND	79.7	10-147		3.39	30	



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11734 - EPA 3546 SVOA

Matrix Spike Dup (BG11734-1) Matrix Spike Dup Source sample: 21G1127-01 (Matrix Spike Dup) Prepared: 07/31/2021 Analyzed: 08/02/2021

Diethyl phthalate	0.646	0.0845	mg/kg dry	0.844	ND	76.6	20-120		1.68	30	
Dimethyl phthalate	0.614	0.0845	"	0.844	ND	72.8	18-131		7.02	30	
Di-n-butyl phthalate	0.627	0.0845	"	0.844	ND	74.2	10-137		9.68	30	
Di-n-octyl phthalate	0.614	0.0845	"	0.844	ND	72.7	10-180		10.9	30	
Diphenylamine	0.784	0.169	"	0.844	ND	92.9	40-140		6.83	30	
Fluoranthene	0.647	0.0845	"	0.844	ND	76.6	10-160		9.40	30	
Fluorene	0.656	0.0845	"	0.844	ND	77.7	10-157		9.09	30	
Hexachlorobenzene	0.591	0.0845	"	0.844	ND	70.0	10-137		5.23	30	
Hexachlorobutadiene	0.624	0.0845	"	0.844	ND	73.9	10-132		11.3	30	
Hexachlorocyclopentadiene	0.273	0.0845	"	0.844	ND	32.4	10-106		8.39	30	
Hexachloroethane	0.591	0.0845	"	0.844	ND	70.1	10-110		3.51	30	
Indeno(1,2,3-cd)pyrene	0.716	0.0845	"	0.844	ND	84.8	10-144		15.0	30	
Isophorone	0.568	0.0845	"	0.844	ND	67.4	10-132		5.65	30	
Naphthalene	0.661	0.0845	"	0.844	ND	78.3	10-141		4.14	30	
Nitrobenzene	0.613	0.0845	"	0.844	ND	72.6	10-131		3.26	30	
N-Nitrosodimethylamine	0.429	0.0845	"	0.844	ND	50.8	10-126		7.03	30	
N-nitroso-di-n-propylamine	0.467	0.0845	"	0.844	ND	55.3	10-125		2.48	30	
N-Nitrosodiphenylamine	0.723	0.0845	"	0.844	ND	85.7	10-177		13.3	30	
Pentachlorophenol	0.371	0.0845	"	0.844	ND	44.0	10-153		8.36	30	
Phenanthrene	0.646	0.0845	"	0.844	ND	76.6	10-148		5.42	30	
Phenol	0.617	0.0845	"	0.844	ND	73.1	10-126		2.60	30	
Pyrene	0.675	0.0845	"	0.844	ND	80.0	10-165		9.76	30	
Pyridine	0.379	0.338	"	0.844	ND	44.9	10-83		6.55	30	
Surrogate: SURR: 2-Fluorophenol	1.19		"	1.69		70.4	20-108				
Surrogate: SURR: Phenol-d5	1.03		"	1.69		60.9	23-114				
Surrogate: SURR: Nitrobenzene-d5	0.603		"	0.844		71.4	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	0.612		"	0.844		72.6	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1.59		"	1.69		94.0	19-110				
Surrogate: SURR: Terphenyl-d14	0.669		"	0.844		79.3	24-116				



Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BH10173 - EPA 3550C												
Blank (BH10173-BLK1)	Blank								Prepared: 08/04/2021 Analyzed: 08/05/2021			
1,4-Dioxane	ND	19.8	ug/kg									
Surrogate: 1,4-Dioxane-d8	287		"	495		58.0	39-127.5					
LCS (BH10173-BS1)	LCS								Prepared: 08/04/2021 Analyzed: 08/05/2021			
1,4-Dioxane	572	19.8	ug/kg	495		116	40-130					
Surrogate: 1,4-Dioxane-d8	317		"	495		64.0	39-127.5					
Matrix Spike (BH10173-MS1)	Matrix Spike	*Source sample: 21G1176-03 (Matrix Spike)								Prepared: 08/04/2021 Analyzed: 08/05/2021		
1,4-Dioxane	552	19.8	ug/kg	495	ND	112	40-130					
Surrogate: 1,4-Dioxane-d8	257		"	495		52.0	40-130					
Matrix Spike Dup (BH10173-MS1)	Matrix Spike Dup	*Source sample: 21G1176-03 (Matrix Spike Dup)								Prepared: 08/04/2021 Analyzed: 08/05/2021		
1,4-Dioxane	581	19.8	ug/kg	495	ND	117	40-130		5.07	30		
Surrogate: 1,4-Dioxane-d8	228		"	495		46.0	40-130					



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10127 - SPE PFAS Extraction-Soil-EPA 537m

Blank (BH10127-BLK1)	Blank	Prepared: 08/03/2021 Analyzed: 08/04/2021									
Perfluorobutanesulfonic acid (PFBS)	ND	0.226	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.226	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.226	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.226	"								
Perfluorooctanoic acid (PFOA)	ND	0.226	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.226	"								
Perfluorononanoic acid (PFNA)	ND	0.226	"								
Perfluorodecanoic acid (PFDA)	ND	0.226	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.226	"								
Perfluorododecanoic acid (PFDoA)	ND	0.226	"								
Perfluorotridecanoic acid (PFTriDA)	ND	0.226	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.226	"								
N-MeFOSAA	ND	0.226	"								
N-EtFOSAA	ND	0.226	"								
Perfluoropentanoic acid (PFPeA)	ND	0.226	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.226	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.226	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.226	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	ND	0.226	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	ND	0.226	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.226	"								
Surrogate: M3PFBS	3.76		"	4.21		89.4	25-150				
Surrogate: M5PFHxA	4.20		"	4.53		92.7	25-150				
Surrogate: M4PFHpA	4.04		"	4.53		89.3	25-150				
Surrogate: M3PFHxS	3.51		"	4.28		81.9	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.39		"	4.53		96.9	25-150				
Surrogate: M6PFDA	4.56		"	4.53		101	25-150				
Surrogate: M7PFUdA	3.91		"	4.53		86.4	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	3.81		"	4.53		84.1	25-150				
Surrogate: M2PFTeDA	1.97		"	4.53		43.6	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	4.57		"	4.53		101	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.27		"	4.33		75.5	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.57		"	4.53		101	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.56		"	4.53		78.6	10-150				
Surrogate: d3-N-MeFOSAA	4.59		"	4.53		101	25-150				
Surrogate: d5-N-EtFOSAA	4.77		"	4.53		105	25-150				
Surrogate: M2-6:2 FTS	7.52		"	4.30		175	25-200				
Surrogate: M2-8:2 FTS	11.7		"	4.34		269	25-200				
Surrogate: M9PFNA	4.52		"	4.53		99.7	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10127 - SPE PFAS Extraction-Soil-EPA 537m											
LCS (BH10127-BS1)	LCS	Prepared: 08/03/2021 Analyzed: 08/04/2021									
Perfluorobutanesulfonic acid (PFBS)	3.84	0.228	ug/kg wet	4.04		95.2	50-130				
Perfluorohexanoic acid (PFHxA)	4.10	0.228	"	4.56		89.9	50-130				
Perfluoroheptanoic acid (PFHpA)	4.14	0.228	"	4.56		90.7	50-130				
Perfluorohexanesulfonic acid (PFHxS)	4.05	0.228	"	4.16		97.3	50-130				
Perfluorooctanoic acid (PFOA)	4.16	0.228	"	4.56		91.1	50-130				
Perfluorooctanesulfonic acid (PFOS)	4.16	0.228	"	4.23		98.4	50-130				
Perfluorononanoic acid (PFNA)	3.62	0.228	"	4.56		79.4	50-130				
Perfluorodecanoic acid (PFDA)	4.08	0.228	"	4.56		89.5	50-130				
Perfluoroundecanoic acid (PFUnA)	3.87	0.228	"	4.56		84.9	50-130				
Perfluorododecanoic acid (PFDoA)	4.03	0.228	"	4.56		88.3	50-130				
Perfluorotridecanoic acid (PFTriDA)	3.36	0.228	"	4.56		73.6	50-130				
Perfluorotetradecanoic acid (PFTA)	4.21	0.228	"	4.56		92.3	50-130				
N-MeFOSAA	4.30	0.228	"	4.56		94.2	50-130				
N-EtFOSAA	3.73	0.228	"	4.56		81.8	50-130				
Perfluoropentanoic acid (PFPeA)	3.95	0.228	"	4.56		86.5	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	4.13	0.228	"	4.56		90.6	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.08	0.228	"	4.34		117	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	3.85	0.228	"	4.40		87.3	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	7.77	0.228	"	4.34		179	50-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	9.16	0.228	"	4.38		209	50-200	High Bias			
Perfluoro-n-butanoic acid (PFBA)	4.17	0.228	"	4.56		91.4	50-130				
Surrogate: M3PFBS	3.78		"	4.24		89.2	25-150				
Surrogate: M5PFHxA	4.35		"	4.56		95.3	25-150				
Surrogate: M4PFHpA	4.18		"	4.56		91.5	25-150				
Surrogate: M3PFHxS	3.59		"	4.32		83.2	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.53		"	4.56		99.3	25-150				
Surrogate: M6PFDA	4.35		"	4.56		95.2	25-150				
Surrogate: M7PFUdA	3.97		"	4.56		86.9	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	4.22		"	4.56		92.5	25-150				
Surrogate: M2PFTeDA	2.01		"	4.56		44.2	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	4.50		"	4.56		98.6	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.25		"	4.37		74.5	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.59		"	4.56		101	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.70		"	4.56		81.1	10-150				
Surrogate: d3-N-MeFOSAA	5.16		"	4.56		113	25-150				
Surrogate: d5-N-EtFOSAA	5.21		"	4.56		114	25-150				
Surrogate: M2-6:2 FTS	7.49		"	4.33		173	25-200				
Surrogate: M2-8:2 FTS	12.1		"	4.37		276	25-200				
Surrogate: M9PFNA	5.10		"	4.56		112	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10127 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike (BH10127-MS1) Matrix Spike						*Source sample: 21G1434-01 (414_EP13_8.5)					
						Prepared: 08/03/2021 Analyzed: 08/04/2021					
Perfluorobutanesulfonic acid (PFBS)	4.58	0.263	ug/kg dry	4.65	ND	98.3	25-150				
Perfluorohexanoic acid (PFHxA)	4.69	0.263	"	5.26	ND	89.2	25-150				
Perfluoroheptanoic acid (PFHpA)	4.87	0.263	"	5.26	ND	92.6	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.53	0.263	"	4.80	ND	94.5	25-150				
Perfluorooctanoic acid (PFOA)	4.72	0.263	"	5.26	ND	89.8	25-150				
Perfluorooctanesulfonic acid (PFOS)	4.61	0.263	"	4.87	ND	94.6	25-150				
Perfluorononanoic acid (PFNA)	4.25	0.263	"	5.26	ND	80.9	25-150				
Perfluorodecanoic acid (PFDA)	4.69	0.263	"	5.26	ND	89.1	25-150				
Perfluoroundecanoic acid (PFUnA)	4.44	0.263	"	5.26	ND	84.4	25-150				
Perfluorododecanoic acid (PFDoA)	4.51	0.263	"	5.26	ND	85.7	25-150				
Perfluorotridecanoic acid (PFTriDA)	4.11	0.263	"	5.26	ND	78.2	25-150				
Perfluorotetradecanoic acid (PFTA)	4.79	0.263	"	5.26	ND	91.1	25-150				
N-MeFOSAA	4.81	0.263	"	5.26	ND	91.4	25-150				
N-EtFOSAA	4.26	0.263	"	5.26	ND	81.0	25-150				
Perfluoropentanoic acid (PFPeA)	4.50	0.263	"	5.26	ND	85.7	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.72	0.263	"	5.26	ND	89.7	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.82	0.263	"	5.00	ND	116	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	4.44	0.263	"	5.07	ND	87.6	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	9.29	0.263	"	5.00	ND	186	25-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	11.4	0.263	"	5.05	ND	225	25-200	High Bias			
Perfluoro-n-butanoic acid (PFBA)	4.62	0.263	"	5.26	ND	87.9	25-150				
Surrogate: M3PFBS	4.16		"	4.89		85.1	25-150				
Surrogate: M5PFHxA	5.18		"	5.26		98.5	25-150				
Surrogate: M4PFHpA	4.86		"	5.26		92.4	25-150				
Surrogate: M3PFHxS	4.18		"	4.97		84.0	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	5.33		"	5.26		101	25-150				
Surrogate: M6PFDA	5.06		"	5.26		96.2	25-150				
Surrogate: M7PFUdA	4.62		"	5.26		87.9	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	4.63		"	5.26		88.0	25-150				
Surrogate: M2PFTeDA	2.81		"	5.26		53.5	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	5.57		"	5.26		106	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.70		"	5.03		73.6	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.47		"	5.26		104	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	4.13		"	5.26		78.6	10-150				
Surrogate: d3-N-MeFOSAA	5.74		"	5.26		109	25-150				
Surrogate: d5-N-EtFOSAA	5.88		"	5.26		112	25-150				
Surrogate: M2-6:2 FTS	10.2		"	4.99		205	25-200				
Surrogate: M2-8:2 FTS	16.8		"	5.04		334	25-200				
Surrogate: M9PFNA	5.59		"	5.26		106	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH10127 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike Dup (BH10127-1 Matrix Spike Dup) Source sample: 21G1434-01 (414_EP13_8.5)						Prepared: 08/03/2021 Analyzed: 08/04/2021					
Perfluorobutanesulfonic acid (PFBS)	4.58	0.273	ug/kg dry	4.83	ND	94.8	25-150		0.000896	35	
Perfluorohexanoic acid (PFHxA)	5.12	0.273	"	5.46	ND	93.8	25-150		8.70	35	
Perfluoroheptanoic acid (PFHpA)	5.33	0.273	"	5.46	ND	97.7	25-150		9.04	35	
Perfluorohexanesulfonic acid (PFHxS)	4.78	0.273	"	4.98	ND	96.0	25-150		5.33	35	
Perfluorooctanoic acid (PFOA)	5.13	0.273	"	5.46	ND	94.1	25-150		8.32	35	
Perfluorooctanesulfonic acid (PFOS)	4.81	0.273	"	5.05	ND	95.3	25-150		4.42	35	
Perfluorononanoic acid (PFNA)	4.41	0.273	"	5.46	ND	80.9	25-150		3.73	35	
Perfluorodecanoic acid (PFDA)	5.05	0.273	"	5.46	ND	92.6	25-150		7.50	35	
Perfluoroundecanoic acid (PFUnA)	4.98	0.273	"	5.46	ND	91.3	25-150		11.6	35	
Perfluorododecanoic acid (PFDoA)	5.11	0.273	"	5.46	ND	93.6	25-150		12.5	35	
Perfluorotridecanoic acid (PFTriDA)	4.15	0.273	"	5.46	ND	76.1	25-150		0.850	35	
Perfluorotetradecanoic acid (PFTA)	5.29	0.273	"	5.46	ND	97.0	25-150		9.94	35	
N-MeFOSAA	5.14	0.273	"	5.46	ND	94.1	25-150		6.64	35	
N-EtFOSAA	4.33	0.273	"	5.46	ND	79.4	25-150		1.75	35	
Perfluoropentanoic acid (PFPeA)	4.89	0.273	"	5.46	ND	89.7	25-150		8.25	35	
Perfluoro-1-octanesulfonamide (FOSA)	5.06	0.273	"	5.46	ND	92.7	25-150		6.96	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	6.18	0.273	"	5.18	ND	119	25-150		6.05	35	
Perfluoro-1-decanesulfonic acid (PFDS)	4.49	0.273	"	5.26	ND	85.3	25-150		1.05	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	9.41	0.273	"	5.18	ND	181	25-200		1.27	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	11.7	0.273	"	5.24	ND	224	25-200	High Bias	2.91	35	
Perfluoro-n-butanoic acid (PFBA)	5.03	0.273	"	5.46	ND	92.2	25-150		8.53	35	
Surrogate: M3PFBS	3.79		"	5.07		74.7	25-150				
Surrogate: M5PFHxA	4.30		"	5.46		78.8	25-150				
Surrogate: M4PFHpA	4.05		"	5.46		74.3	25-150				
Surrogate: M3PFHxS	3.68		"	5.16		71.4	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.49		"	5.46		82.3	25-150				
Surrogate: M6PFDA	4.08		"	5.46		74.8	25-150				
Surrogate: M7PFUdA	3.56		"	5.46		65.3	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	3.75		"	5.46		68.8	25-150				
Surrogate: M2PFTeDA	1.92		"	5.46		35.2	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	4.74		"	5.46		86.9	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.15		"	5.22		60.2	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.69		"	5.46		86.0	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.38		"	5.46		61.9	10-150				
Surrogate: d3-N-MeFOSAA	4.59		"	5.46		84.2	25-150				
Surrogate: d5-N-EtFOSAA	4.99		"	5.46		91.4	25-150				
Surrogate: M2-6:2 FTS	8.48		"	5.18		164	25-200				
Surrogate: M2-8:2 FTS	12.7		"	5.23		243	25-200				
Surrogate: M9PFNA	4.87		"	5.46		89.3	25-150				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10067 - EPA 3550C

Blank (BH10067-BLK1)	Blank	Prepared: 08/02/2021 Analyzed: 08/03/2021									
4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								

Surrogate: Decachlorobiphenyl	0.0613	"	0.0664	92.2	30-150	
Surrogate: Tetrachloro-m-xylene	0.0753	"	0.0664	113	30-150	

LCS (BH10067-BS1)	LCS	Prepared: 08/02/2021 Analyzed: 08/03/2021									
4,4'-DDD	0.0385	0.00164	mg/kg wet	0.0332	116	40-140					
4,4'-DDE	0.0155	0.00164	"	0.0332	46.7	40-140					
4,4'-DDT	0.0230	0.00164	"	0.0332	69.1	40-140					
Aldrin	0.0440	0.00164	"	0.0332	133	40-140					
alpha-BHC	0.0433	0.00164	"	0.0332	130	40-140					
alpha-Chlordane	0.0471	0.00164	"	0.0332	142	40-140	High Bias				
beta-BHC	0.0453	0.00164	"	0.0332	136	40-140					
delta-BHC	0.0421	0.00164	"	0.0332	127	40-140					
Dieldrin	0.0498	0.00164	"	0.0332	150	40-140	High Bias				
Endosulfan I	0.0525	0.00164	"	0.0332	158	40-140	High Bias				
Endosulfan II	0.0521	0.00164	"	0.0332	157	40-140	High Bias				
Endosulfan sulfate	0.0405	0.00164	"	0.0332	122	40-140					
Endrin	0.0359	0.00164	"	0.0332	108	40-140					
Endrin aldehyde	0.0452	0.00164	"	0.0332	136	40-140					
Endrin ketone	0.0440	0.00164	"	0.0332	132	40-140					
gamma-BHC (Lindane)	0.0440	0.00164	"	0.0332	132	40-140					
gamma-Chlordane	0.0483	0.00164	"	0.0332	145	40-140	High Bias				
Heptachlor	0.0490	0.00164	"	0.0332	148	40-140	High Bias				
Heptachlor epoxide	0.0500	0.00164	"	0.0332	150	40-140	High Bias				
Methoxychlor	0.0147	0.00164	"	0.0332	44.3	40-140					

Surrogate: Decachlorobiphenyl	0.0631	"	0.0664	95.0	30-150	
Surrogate: Tetrachloro-m-xylene	0.0747	"	0.0664	112	30-150	



Organochlorine Pesticides by GC/ECD - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch Y1G1207 - BE10937

Performance Mix (Y1G1207-F Performance Mix)							Prepared & Analyzed: 07/09/2021				
4,4'-DDD	9.58		ng/mL	0.00			0-200				
4,4'-DDE	1.13		"	0.00			0-200				
4,4'-DDT	143		"	200		71.4	0-200				
Endrin	88.9		"	100		88.9	0-200				
Endrin aldehyde	1.40		"	0.00			0-200				
Endrin ketone	4.35		"	0.00			0-200				

Batch Y1H0424 - BG11709

Performance Mix (Y1H0424-F Performance Mix)							Prepared & Analyzed: 08/03/2021				
4,4'-DDD	20.4		ng/mL	0.00			0-200				
4,4'-DDE	2.28		"	0.00			0-200				
4,4'-DDT	219		"	200		109	0-200				
Endrin	108		"	100		108	0-200				
Endrin aldehyde	1.36		"	0.00			0-200				
Endrin ketone	11.9		"	0.00			0-200				

Performance Mix (Y1H0424-F Performance Mix)							Prepared & Analyzed: 08/03/2021				
4,4'-DDD	18.5		ng/mL	0.00			0-200				
4,4'-DDE	3.20		"	0.00			0-200				
4,4'-DDT	216		"	200		108	0-200				
Endrin	124		"	100		124	0-200				
Endrin aldehyde	2.58		"	0.00			0-200				
Endrin ketone	11.8		"	0.00			0-200				



Polychlorinated Biphenyls by GC/ECD - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10067 - EPA 3550C

Blank (BH10067-BLK2)		Blank										Prepared: 08/02/2021 Analyzed: 08/03/2021	
Aroclor 1016	ND	0.0166	mg/kg wet										
Aroclor 1221	ND	0.0166	"										
Aroclor 1232	ND	0.0166	"										
Aroclor 1242	ND	0.0166	"										
Aroclor 1248	ND	0.0166	"										
Aroclor 1254	ND	0.0166	"										
Aroclor 1260	ND	0.0166	"										
Total PCBs	ND	0.0166	"										
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0794		"	0.0664		120	30-120						
<i>Surrogate: Decachlorobiphenyl</i>	0.0535		"	0.0664		80.5	30-120						

LCS (BH10067-BS2)		LCS										Prepared: 08/02/2021 Analyzed: 08/03/2021	
Aroclor 1016	0.342	0.0166	mg/kg wet	0.332		103	40-130						
Aroclor 1260	0.323	0.0166	"	0.332		97.2	40-130						
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0512		"	0.0664		77.0	30-120						
<i>Surrogate: Decachlorobiphenyl</i>	0.0382		"	0.0664		57.5	30-120						

Batch Y1H0334 - BH10043

Aroclor Reference (Y1H0334- Aroclor Reference)		Aroclor Reference										Prepared & Analyzed: 08/03/2021	
<i>Surrogate: Tetrachloro-m-xylene</i>	0.180		ug/mL	0.200		90.0							
<i>Surrogate: Decachlorobiphenyl</i>	0.183		"	0.200		91.5							



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10013 - EPA 3050B

Blank (BH10013-BLK1)	Blank	Prepared: 08/02/2021 Analyzed: 08/03/2021									
Aluminum	ND	5.00	mg/kg wet								
Antimony	ND	2.50	"								
Arsenic	ND	1.50	"								
Barium	ND	2.50	"								
Beryllium	ND	0.050	"								
Cadmium	ND	0.300	"								
Calcium	ND	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.400	"								
Copper	ND	2.00	"								
Iron	ND	25.0	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	1.00	"								
Potassium	ND	5.00	"								
Selenium	ND	2.50	"								
Silver	ND	0.500	"								
Sodium	ND	50.0	"								
Thallium	ND	2.50	"								
Vanadium	ND	1.00	"								
Zinc	ND	2.50	"								

Duplicate (BH10013-DUP1)	Duplicate	*Source sample: 21G1434-05 (414_EP04_13)										Prepared: 08/02/2021 Analyzed: 08/03/2021	
Aluminum	9260	6.53	mg/kg dry		9110				1.62	35			
Antimony	ND	3.26	"		ND					35			
Arsenic	3.24	1.96	"		2.75			16.2	35				
Barium	51.7	3.26	"		52.2			0.990	35				
Beryllium	ND	0.065	"		ND				35				
Cadmium	ND	0.392	"		ND				35				
Calcium	1180	6.53	"		1140			2.72	35				
Chromium	12.9	0.653	"		12.7			1.51	35				
Cobalt	7.59	0.522	"		7.85			3.43	35				
Copper	15.7	2.61	"		16.0			2.27	35				
Iron	18300	32.6	"		18200			0.501	35				
Lead	5.03	0.653	"		5.46			8.22	35				
Magnesium	4020	6.53	"		3840			4.58	35				
Manganese	446	0.653	"		443			0.499	35				
Nickel	15.2	1.31	"		15.5			1.63	35				
Potassium	1430	6.53	"		1390			3.36	35				
Selenium	ND	3.26	"		ND				35				
Silver	ND	0.653	"		ND				35				
Sodium	ND	65.3	"		ND				35				
Thallium	ND	3.26	"		ND				35				
Vanadium	14.7	1.31	"		14.6			0.577	35				
Zinc	42.4	3.26	"		41.3			2.70	35				



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10013 - EPA 3050B

Matrix Spike (BH10013-MS1)	Matrix Spike	*Source sample: 21G1434-05 (414_EP04_13)					Prepared: 08/02/2021 Analyzed: 08/03/2021					
Aluminum	9520	6.53	mg/kg dry	261	9110	157	75-125	High Bias				
Antimony	11.8	3.26	"	32.6	ND	36.0	75-125	Low Bias				
Arsenic	261	1.96	"	261	2.75	98.9	75-125					
Barium	326	3.26	"	261	52.2	105	75-125					
Beryllium	6.47	0.065	"	6.53	ND	99.1	75-125					
Cadmium	6.54	0.392	"	6.53	ND	100	75-125					
Calcium	1410	6.53	"	131	1140	203	75-125	High Bias				
Chromium	39.0	0.653	"	26.1	12.7	101	75-125					
Cobalt	76.5	0.522	"	65.3	7.85	105	75-125					
Copper	50.5	2.61	"	32.6	16.0	106	75-125					
Iron	19100	32.6	"	131	18200	668	75-125	High Bias				
Lead	74.9	0.653	"	65.3	5.46	106	75-125					
Magnesium	4260	6.53	"	131	3840	322	75-125	High Bias				
Manganese	519	0.653	"	65.3	443	116	75-125					
Nickel	84.8	1.31	"	65.3	15.5	106	75-125					
Potassium	1460	6.53	"	131	1390	53.9	75-125	Low Bias				
Selenium	216	3.26	"	261	ND	82.9	75-125					
Silver	6.23	0.653	"	6.53	ND	95.4	75-125					
Sodium	185	65.3	"	131	ND	141	75-125	High Bias				
Thallium	262	3.26	"	261	ND	100	75-125					
Vanadium	80.0	1.31	"	65.3	14.6	100	75-125					
Zinc	110	3.26	"	65.3	41.3	105	75-125					

Post Spike (BH10013-PS1)	Post Spike	*Source sample: 21G1434-05 (414_EP04_13)					Prepared: 08/02/2021 Analyzed: 08/03/2021					
Aluminum	72.2		ug/mL	2.00	69.8	124	75-125					
Antimony	0.313		"	0.250	-0.007	125	75-125					
Arsenic	2.30		"	2.00	0.021	114	75-125					
Barium	2.80		"	2.00	0.400	120	75-125					
Beryllium	0.056		"	0.0500	-0.002	113	75-125					
Cadmium	0.058		"	0.0500	-0.0006	116	75-125					
Calcium	9.99		"	1.00	8.77	122	75-125					
Chromium	0.324		"	0.200	0.097	113	75-125					
Cobalt	0.665		"	0.500	0.060	121	75-125					
Copper	0.421		"	0.250	0.123	119	75-125					
Iron	140		"	1.00	139	84.4	75-125					
Lead	0.648		"	0.500	0.042	121	75-125					
Magnesium	30.6		"	1.00	29.4	122	75-125					
Manganese	3.97		"	0.500	3.40	114	75-125					
Nickel	0.725		"	0.500	0.119	121	75-125					
Potassium	12.1		"	1.00	10.6	148	75-125	High Bias				
Selenium	1.92		"	2.00	-0.100	96.0	75-125					
Silver	0.027		"	0.0500	-0.008	53.1	75-125	Low Bias				
Sodium	1.55		"	1.00	0.422	112	75-125					
Thallium	2.33		"	2.00	-0.019	117	75-125					
Vanadium	0.692		"	0.500	0.112	116	75-125					
Zinc	0.896		"	0.500	0.316	116	75-125					



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10013 - EPA 3050B

Reference (BH10013-SRM1) Reference Prepared: 08/02/2021 Analyzed: 08/03/2021

Aluminum	8610	5.00	mg/kg wet	8130		106	50.5-150.1				
Antimony	72.1	2.50	"	134		53.8	19-251.7				
Arsenic	162	1.50	"	156		104	70.1-129.8				
Barium	254	2.50	"	239		106	75-125				
Beryllium	168	0.050	"	169		99.5	75-125.2				
Cadmium	134	0.300	"	137		98.0	74.8-125.2				
Calcium	4780	5.00	"	4760		100	72.7-127.5				
Chromium	150	0.500	"	154		97.1	70.1-129.9				
Cobalt	121	0.400	"	121		100	75-125				
Copper	57.2	2.00	"	54.9		104	75.3-125.3				
Iron	14000	25.0	"	14100		99.2	35.8-164.6				
Lead	134	0.500	"	130		103	70-130				
Magnesium	2430	5.00	"	2320		105	61.7-137.8				
Manganese	275	0.500	"	269		102	78.1-122				
Nickel	63.1	1.00	"	53.9		117	70.1-130.1				
Potassium	2140	5.00	"	2020		106	59.1-140.9				
Selenium	140	2.50	"	167		83.7	55.7-144.5				
Silver	34.4	0.500	"	33.6		102	69.2-130.8				
Sodium	135	50.0	"	133		102	36.1-163.3				
Thallium	114	2.50	"	112		102	65.3-146.8				
Vanadium	58.8	1.00	"	62.6		93.9	67-133.1				
Zinc	155	2.50	"	158		98.0	69.9-130.1				



Mercury by EPA 7000/200 Series Methods - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BH10107 - EPA 7473 soil												
Blank (BH10107-BLK1)	Blank								Prepared & Analyzed: 08/03/2021			
Mercury	ND	0.0300	mg/kg wet									
Duplicate (BH10107-DUP1)	Duplicate	*Source sample: 21G1434-01 (414_EP13_8.5)								Prepared & Analyzed: 08/03/2021		
Mercury	ND	0.0348	mg/kg dry		ND						35	
Matrix Spike (BH10107-MS1)	Matrix Spike	*Source sample: 21G1434-01 (414_EP13_8.5)								Prepared & Analyzed: 08/03/2021		
Mercury	0.811		mg/kg	0.500	0.0103	160	75-125	High Bias				
Reference (BH10107-SRM1)	Reference								Prepared & Analyzed: 08/03/2021			
Mercury	23.122		mg/kg	27.2		85.0	59.9-140.1					



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BH10044 - Analysis Preparation Soil												
Blank (BH10044-BLK1)	Blank								Prepared & Analyzed: 08/02/2021			
Cyanide, total	ND	0.500	mg/kg wet									
Duplicate (BH10044-DUP1)	Duplicate	*Source sample: 21G1434-05 (414_EP04_13)								Prepared & Analyzed: 08/02/2021		
Cyanide, total	ND	0.653	mg/kg dry		ND						15	
Matrix Spike (BH10044-MS1)	Matrix Spike	*Source sample: 21G1434-05 (414_EP04_13)								Prepared & Analyzed: 08/02/2021		
Cyanide, total	11.7	0.653	mg/kg dry	13.1	ND	89.4	79.6-107					
Reference (BH10044-SRM1)	Reference								Prepared & Analyzed: 08/02/2021			
Cyanide, total	94.8		ug/mL	91.9		103	42.22-159.96					
Batch BH10045 - EPA SW846-3060												
Blank (BH10045-BLK1)	Blank								Prepared & Analyzed: 08/02/2021			
Chromium, Hexavalent	ND	0.500	mg/kg wet									
Duplicate (BH10045-DUP1)	Duplicate	*Source sample: 21G1434-05 (414_EP04_13)								Prepared & Analyzed: 08/02/2021		
Chromium, Hexavalent	ND	0.653	mg/kg dry		ND						35	
Matrix Spike (BH10045-MS1)	Matrix Spike	*Source sample: 21G1434-05 (414_EP04_13)								Prepared & Analyzed: 08/02/2021		
Chromium, Hexavalent	23.8	0.653	mg/kg dry	26.1	ND	91.2	75-125					
Reference (BH10045-SRM1)	Reference								Prepared & Analyzed: 08/02/2021			
Chromium, Hexavalent	87.7		mg/L	109		80.5	30-169.7					



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH10033 - % Solids Prep

Duplicate (BH10033-DUP1)	Duplicate	*Source sample: 21G1434-05 (414 EP04 13)						Prepared & Analyzed: 08/02/2021			
% Solids	76.8	0.100	%		76.6				0.271	20	



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
21G1434-01	414_EP13_8.5	40mL Vial with Stir Bar-Cool 4° C
21G1434-02	414_EP18_8.5	40mL Vial with Stir Bar-Cool 4° C
21G1434-03	414_EP12_8.5	40mL Vial with Stir Bar-Cool 4° C
21G1434-04	414_EP17_8.5	40mL Vial with Stir Bar-Cool 4° C
21G1434-05	414_EP04_13	40mL Vial with Stir Bar-Cool 4° C



Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
QC-LCS	LCS/LCS Dup recovery was above laboratory control limits. Sample does not contain any target compounds; therefore sample results are acceptable.
PTel-VAR	This fluorotelomer acid is known to be unstable in mixtures of standards due to dehydrofluorination and formation of methoxy adducts. The data user should take note. These issues create variability in CCVs, LCs and MSs.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-LCS-H	The LCS recovery was slightly above acceptable limits for the qualified compound. However, sample results are not biased high because results are corrected for isotope recovery.
PFAS-MSH	The recovery for this matrix spike compound was above control limits possibly due to matrix effects or non-homogeneity of the sample versus the native sample
M-SRD1	The serial dilution for this element was outside control limits.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.
M-CRL	The RL check for this element recovered outside of control limits.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis



- Low Bias** Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias** High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir.** Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



Field Chain-of-Custody Record

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06815 132-02 89th Ave Queens, NY 11418 client.services@yorklab.com www.yorklab.com 800-306-YORK 800-306-9675

YORK Project No. **21G1434** Page **1** of **1**

YOUR INFORMATION
 Company: **LANGAN**
 Address: **300 W 31st St 8th Floor NY, NY**
 Phone: **212-470-5400**
 Contact: **Tom Manti**
 E-mail: **keenan@langan.com**

Report To: _____
Invoice To: _____

YOUR PROJECT NUMBER
120488401

YOUR PROJECT NAME
114 / 444 Genes Ave

YOUR PO#: _____

Turn-Around Time
 RUSH - Next Day
 RUSH - Two Day
 RUSH - Three Day
 RUSH - Four Day
 Standard (5-7 Day)

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Matrix Codes
 soil / solid
 GW - groundwater
 DW - drinking water
 WW - wastewater
 O - Oil | Other: _____

Report / EDD Type (circle selections)
 Summary Report CT RCP Standard Excel EDD
 QA Report CT RCP DQ/DUE EQUIS (Standard)
 NY ASP A Package NJDEP Reduced NYSDEC EQUIS
 NY ASP B Packages Deliverables NJDEP SRP HazSite
 Other: NJDKQP

YORK Reg. Comp.
 Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
H14-EP13-8.5	S	1500 7/30/21	TCL/Box 375 VOCs, SVOCs, PCBs,	
H14-EP18-8.5	S	1501 7/30/21	Pesticides METALS INCLUSION	
H14-EP12-8.5	S	1502 7/30/21	Cyanide, Hex/Tric Chloroform,	
H14-EP17-8.5	S	1503 7/30/21	PFAS, 1,4-dioxane	
H14-EP04-13	S	1504 7/30/21		

Comments: CC: LESMAIL@LANGAN.COM
 DATA MANAGEMENT @ LANGAN.COM

Preservation: (check all that apply)
 HCl _____ MeOH _____ HNO3 _____ H2SO4 _____ NaOH _____
 ZnAc _____ Ascorbic Acid _____ Other: _____

Special Instruction
 Field Filtered
 Lab to Filter

Special Instructions:
 (A) RUN FOR ALL SOIL SAMPLES

Date/Time 7/30/21 1600
Date/Time 7/30/21 2040

Date/Time 02/25/11 2040
Temperature 4.4 Degrees C



Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

Attention: Kimberly Semon

Report Date: 07/30/2021

Client Project ID: 170488401

York Project (SDG) No.: 21G1253

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
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(203) 325-1371

132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 07/30/2021
Client Project ID: 170488401
York Project (SDG) No.: 21G1253

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Kimberly Semon

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 27, 2021 and listed below. The project was identified as your project: **170488401**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

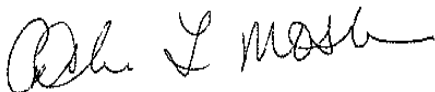
Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21G1253-01	414_EP03_9.8	Soil	07/27/2021	07/27/2021
21G1253-02	414_EP08_8.5	Soil	07/27/2021	07/27/2021

General Notes for York Project (SDG) No.: 21G1253

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By



Cassie L. Mosher
Laboratory Manager

Date: 07/30/2021





Sample Information

Client Sample ID: 414_EP03_9.8

York Sample ID: 21G1253-01

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:30 pm	<u>Date Received</u> 07/27/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.038	0.076	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
78-93-3	2-Butanone	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ



Sample Information

Client Sample ID: 414_EP03_9.8

York Sample ID: 21G1253-01

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:30 pm	<u>Date Received</u> 07/27/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
67-64-1	Acetone	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
107-02-8	Acrolein	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
71-43-2	Benzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
75-25-2	Bromoform	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
74-83-9	Bromomethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
75-00-3	Chloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
67-66-3	Chloroform	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
74-87-3	Chloromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
110-82-7	Cyclohexane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
74-95-3	Dibromomethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ



Sample Information

Client Sample ID: 414_EP03_9.8

York Sample ID: 21G1253-01

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:30 pm	<u>Date Received</u> 07/27/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
79-20-9	Methyl acetate	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
75-09-2	Methylene chloride	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
95-47-6	o-Xylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
100-42-5	Styrene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
108-88-3	Toluene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ



Sample Information

Client Sample ID: 414_EP03_9.8

York Sample ID: 21G1253-01

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:30 pm	<u>Date Received</u> 07/27/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0057	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/28/2021 06:07	07/29/2021 05:46	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	97.2 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	101 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	94.2 %			76-130						

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0894	0.179	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0894	0.179	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0894	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH



Sample Information

Client Sample ID: 414_EP03_9.8

York Sample ID: 21G1253-01

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:30 pm	<u>Date Received</u> 07/27/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0894	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0894	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0894	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0894	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0894	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
62-53-3	Aniline	ND		mg/kg dry	0.179	0.358	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
92-87-5	Benzidine	ND		mg/kg dry	0.179	0.358	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH



Sample Information

Client Sample ID: 414_EP03_9.8

York Sample ID: 21G1253-01

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:30 pm	<u>Date Received</u> 07/27/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0894	0.179	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0894	0.179	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
206-44-0	Fluoranthene	0.0486	J	mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH



Sample Information

Client Sample ID: 414_EP03_9.8

York Sample ID: 21G1253-01

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:30 pm	<u>Date Received</u> 07/27/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
108-95-2	Phenol	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0448	0.0894	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH
110-86-1	Pyridine	ND		mg/kg dry	0.179	0.358	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:06	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	55.4 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	56.3 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	82.8 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	49.2 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	27.3 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	49.6 %	24-116



Sample Information

Client Sample ID: 414_EP03_9.8

York Sample ID: 21G1253-01

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:30 pm	<u>Date Received</u> 07/27/2021
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Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.5	1	EPA 8270D SIM Certifications: NELAC-NY10854	07/29/2021 15:10	07/30/2021 13:43	KH
Surrogate Recoveries		Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	48.0 %	39-127.5							

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:01	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:01	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:01	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:01	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:01	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:01	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:01	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:01	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:01	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:01	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:01	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:01	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:01	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:01	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:01	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:01	WL



Sample Information

Client Sample ID: 414_EP03_9.8

York Sample ID: 21G1253-01

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:30 pm	<u>Date Received</u> 07/27/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:01	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:01	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:01	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:01	WL
375-22-4	* Perfluoro-n-butyric acid (PFBA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:01	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	82.2 %	25-150
Surrogate: M5PFHxA	86.0 %	25-150
Surrogate: M4PFHpA	75.8 %	25-150
Surrogate: M3PFHxS	68.8 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic aci	87.7 %	25-150
Surrogate: M6PFDA	84.5 %	25-150
Surrogate: M7PFUdA	80.3 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	85.6 %	25-150
Surrogate: M2PFTeDA	60.3 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic aci	101 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfor	74.3 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic ac	98.9 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfor	56.9 %	10-150
Surrogate: d3-N-MeFOSAA	67.9 %	25-150
Surrogate: d5-N-EtFOSAA	83.8 %	25-150
Surrogate: M2-6:2 FTS	105 %	25-200
Surrogate: M2-8:2 FTS	141 %	25-200
Surrogate: M9PFNA	103 %	25-150

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:07	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:07	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:07	CM



Sample Information

Client Sample ID: 414_EP03_9.8

York Sample ID: 21G1253-01

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:30 pm	<u>Date Received</u> 07/27/2021
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:07	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:07	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	07/28/2021 13:06	07/29/2021 15:07	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:07	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:07	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:07	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:07	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	07/28/2021 13:06	07/29/2021 15:07	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:07	CM
72-20-8	Endrin	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:07	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:07	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:07	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:07	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	07/28/2021 13:06	07/29/2021 15:07	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:07	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:07	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:07	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:07	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0350	5	EPA 8081B Certifications:	07/28/2021 13:06	07/29/2021 15:07	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	41.5 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	66.9 %	30-150							



Sample Information

Client Sample ID: 414_EP03_9.8

York Sample ID: 21G1253-01

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:30 pm	<u>Date Received</u> 07/27/2021
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 14:51	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 14:51	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 14:51	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 14:51	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 14:51	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 14:51	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 14:51	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications:	07/28/2021 13:06	07/29/2021 14:51	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	69.0 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	45.0 %	30-120							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	9610		mg/kg dry	5.38	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM
7440-36-0	Antimony	ND		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM
7440-39-3	Barium	54.9		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.323	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM
7440-70-2	Calcium	45700	B	mg/kg dry	5.38	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM
7440-47-3	Chromium	16.3		mg/kg dry	0.538	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM
7440-48-4	Cobalt	7.55		mg/kg dry	0.430	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM



Sample Information

Client Sample ID: 414_EP03_9.8

York Sample ID: 21G1253-01

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:30 pm	<u>Date Received</u> 07/27/2021
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	19.1		mg/kg dry	2.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM
7439-89-6	Iron	13500		mg/kg dry	26.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM
7439-92-1	Lead	10.2		mg/kg dry	0.538	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM
7439-95-4	Magnesium	29300		mg/kg dry	5.38	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM
7439-96-5	Manganese	325		mg/kg dry	0.538	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM
7440-02-0	Nickel	13.5		mg/kg dry	1.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM
7440-09-7	Potassium	1390	B	mg/kg dry	5.38	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM
7782-49-2	Selenium	7.10		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM
7440-22-4	Silver	ND		mg/kg dry	0.538	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM
7440-23-5	Sodium	170		mg/kg dry	53.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM
7440-28-0	Thallium	ND		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM
7440-62-2	Vanadium	19.8		mg/kg dry	1.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM
7440-66-6	Zinc	36.8		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:35	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0323	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	07/29/2021 20:05	07/29/2021 20:40	BR

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.538	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	07/28/2021 14:53	07/28/2021 22:01	ZTS

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: 414_EP03_9.8

York Sample ID: 21G1253-01

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:30 pm	<u>Date Received</u> 07/27/2021
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	16.3		mg/kg	0.500	1	Calculation	07/29/2021 12:18	07/30/2021 11:56	PAM
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.538	1	EPA 9014/9010C	07/29/2021 08:14	07/29/2021 14:04	OT
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	93.0		%	0.100	1	SM 2540G	07/28/2021 15:44	07/29/2021 13:52	VR
Certifications: CTDOH										



Sample Information

Client Sample ID: 414_EP08_8.5

York Sample ID: 21G1253-02

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:20 pm	<u>Date Received</u> 07/27/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.046	0.093	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
78-93-3	2-Butanone	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ



Sample Information

Client Sample ID: 414_EP08_8.5

York Sample ID: 21G1253-02

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:20 pm	<u>Date Received</u> 07/27/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
67-64-1	Acetone	ND		mg/kg dry	0.0046	0.0093	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
107-02-8	Acrolein	ND		mg/kg dry	0.0046	0.0093	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
71-43-2	Benzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
75-25-2	Bromoform	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
74-83-9	Bromomethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
75-00-3	Chloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
67-66-3	Chloroform	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
74-87-3	Chloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
110-82-7	Cyclohexane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
74-95-3	Dibromomethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ



Sample Information

Client Sample ID: 414_EP08_8.5

York Sample ID: 21G1253-02

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:20 pm	<u>Date Received</u> 07/27/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
79-20-9	Methyl acetate	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
75-09-2	Methylene chloride	ND		mg/kg dry	0.0046	0.0093	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
95-47-6	o-Xylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0046	0.0093	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
100-42-5	Styrene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
108-88-3	Toluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ



Sample Information

Client Sample ID: 414_EP08_8.5

York Sample ID: 21G1253-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21G1253

170488401

Soil

July 27, 2021 12:20 pm

07/27/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0069	0.014	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/28/2021 06:07	07/29/2021 06:13	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	96.3 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	98.8 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	94.1 %			76-130						

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH



Sample Information

Client Sample ID: 414_EP08_8.5

York Sample ID: 21G1253-02

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:20 pm	<u>Date Received</u> 07/27/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
62-53-3	Aniline	ND		mg/kg dry	0.180	0.360	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
92-87-5	Benzidine	ND		mg/kg dry	0.180	0.360	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
56-55-3	Benzo(a)anthracene	0.0697	J	mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH



Sample Information

Client Sample ID: 414_EP08_8.5

York Sample ID: 21G1253-02

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:20 pm	<u>Date Received</u> 07/27/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	0.0647	J	mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
205-99-2	Benzo(b)fluoranthene	0.0482	J	mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
207-08-9	Benzo(k)fluoranthene	0.0546	J	mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
218-01-9	Chrysene	0.0654	J	mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
206-44-0	Fluoranthene	0.152		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH



Sample Information

Client Sample ID: 414_EP08_8.5

York Sample ID: 21G1253-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21G1253

170488401

Soil

July 27, 2021 12:20 pm

07/27/2021

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
193-39-5	Indeno(1,2,3-cd)pyrene	0.0453	J	mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
85-01-8	Phenanthrene	0.0805	J	mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
108-95-2	Phenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
129-00-0	Pyrene	0.122		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH
110-86-1	Pyridine	ND		mg/kg dry	0.180	0.360	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:10	07/29/2021 21:37	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: SURR: 2-Fluorophenol	43.2 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	40.6 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	57.9 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	36.6 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	21.4 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	35.5 %	24-116



Sample Information

Client Sample ID: 414_EP08_8.5

York Sample ID: 21G1253-02

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:20 pm	<u>Date Received</u> 07/27/2021
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Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.9	1	EPA 8270D SIM Certifications: NELAC-NY10854	07/29/2021 15:10	07/30/2021 14:01	KH
Surrogate Recoveries		Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	56.0 %	39-127.5							

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:24	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:24	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:24	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:24	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:24	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:24	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:24	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:24	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:24	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:24	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:24	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:24	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:24	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:24	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:24	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:24	WL



Sample Information

Client Sample ID: 414_EP08_8.5

York Sample ID: 21G1253-02

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:20 pm	<u>Date Received</u> 07/27/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:24	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:24	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:24	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:24	WL
375-22-4	* Perfluoro-n-butyric acid (PFBA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	07/28/2021 16:05	07/29/2021 23:24	WL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	93.8 %	25-150
Surrogate: M5PFHxA	102 %	25-150
Surrogate: M4PFHpA	84.1 %	25-150
Surrogate: M3PFHxS	72.6 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic aci	88.9 %	25-150
Surrogate: M6PFDA	68.8 %	25-150
Surrogate: M7PFUdA	66.1 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	80.1 %	25-150
Surrogate: M2PFTeDA	60.7 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic aci	114 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfor	77.9 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic ac	113 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfor	58.9 %	10-150
Surrogate: d3-N-MeFOSAA	53.8 %	25-150
Surrogate: d5-N-EtFOSAA	72.0 %	25-150
Surrogate: M2-6:2 FTS	64.1 %	25-200
Surrogate: M2-8:2 FTS	64.8 %	25-200
Surrogate: M9PFNA	99.1 %	25-150

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:24	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:24	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:24	CM



Sample Information

Client Sample ID: 414_EP08_8.5

York Sample ID: 21G1253-02

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:20 pm	<u>Date Received</u> 07/27/2021
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:24	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:24	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	07/28/2021 13:06	07/29/2021 15:24	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:24	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:24	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:24	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:24	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	07/28/2021 13:06	07/29/2021 15:24	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:24	CM
72-20-8	Endrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:24	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:24	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:24	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:24	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	07/28/2021 13:06	07/29/2021 15:24	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:24	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:24	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:24	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:24	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0351	5	EPA 8081B Certifications:	07/28/2021 13:06	07/29/2021 15:24	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	47.1 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	73.9 %	30-150							



Sample Information

Client Sample ID: 414_EP08_8.5

York Sample ID: 21G1253-02

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:20 pm	<u>Date Received</u> 07/27/2021
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:04	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:04	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:04	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:04	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:04	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:04	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/28/2021 13:06	07/29/2021 15:04	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications:	07/28/2021 13:06	07/29/2021 15:04	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	74.0 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	48.5 %	30-120							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	8710		mg/kg dry	5.41	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM
7440-36-0	Antimony	ND		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.62	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM
7440-39-3	Barium	43.0		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.325	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM
7440-70-2	Calcium	34000	B	mg/kg dry	5.41	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM
7440-47-3	Chromium	13.6		mg/kg dry	0.541	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM
7440-48-4	Cobalt	7.27		mg/kg dry	0.433	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM



Sample Information

Client Sample ID: 414_EP08_8.5

York Sample ID: 21G1253-02

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:20 pm	<u>Date Received</u> 07/27/2021
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	17.4		mg/kg dry	2.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM
7439-89-6	Iron	14100		mg/kg dry	27.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM
7439-92-1	Lead	10.5		mg/kg dry	0.541	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM
7439-95-4	Magnesium	21300		mg/kg dry	5.41	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM
7439-96-5	Manganese	331		mg/kg dry	0.541	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM
7440-02-0	Nickel	14.2		mg/kg dry	1.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM
7440-09-7	Potassium	1150	B	mg/kg dry	5.41	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM
7782-49-2	Selenium	3.66		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM
7440-22-4	Silver	ND		mg/kg dry	0.541	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM
7440-23-5	Sodium	120		mg/kg dry	54.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM
7440-28-0	Thallium	ND		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM
7440-62-2	Vanadium	18.3		mg/kg dry	1.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM
7440-66-6	Zinc	41.1		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/29/2021 15:33	07/30/2021 10:38	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0325	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	07/29/2021 20:05	07/29/2021 20:47	BR

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.541	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	07/28/2021 14:53	07/28/2021 22:01	ZTS

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: 414_EP08_8.5

York Sample ID: 21G1253-02

<u>York Project (SDG) No.</u> 21G1253	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 27, 2021 12:20 pm	<u>Date Received</u> 07/27/2021
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	13.6		mg/kg	0.500	1	Calculation	07/29/2021 12:18	07/30/2021 11:56	PAM
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.541	1	EPA 9014/9010C	07/29/2021 08:14	07/29/2021 14:04	OT
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	92.4		%	0.100	1	SM 2540G	07/28/2021 15:44	07/29/2021 13:52	VR
Certifications: CTDOH										



Analytical Batch Summary

Batch ID: BG11539 **Preparation Method:** EPA 3550C **Prepared By:** EMS

YORK Sample ID	Client Sample ID	Preparation Date
21G1253-01	414_EP03_9.8	07/28/21
21G1253-01	414_EP03_9.8	07/28/21
21G1253-02	414_EP08_8.5	07/28/21
21G1253-02	414_EP08_8.5	07/28/21
BG11539-BLK2	Blank	07/28/21
BG11539-BS2	LCS	07/28/21

Batch ID: BG11540 **Preparation Method:** EPA 3546 SVOA **Prepared By:** EMS

YORK Sample ID	Client Sample ID	Preparation Date
21G1253-01	414_EP03_9.8	07/28/21
21G1253-02	414_EP08_8.5	07/28/21
BG11540-BLK1	Blank	07/28/21
BG11540-BS1	LCS	07/28/21
BG11540-MS1	Matrix Spike	07/28/21
BG11540-MSD1	Matrix Spike Dup	07/28/21

Batch ID: BG11559 **Preparation Method:** EPA SW846-3060 **Prepared By:** ZTS

YORK Sample ID	Client Sample ID	Preparation Date
21G1253-01	414_EP03_9.8	07/28/21
21G1253-02	414_EP08_8.5	07/28/21
BG11559-BLK1	Blank	07/28/21
BG11559-DUP1	Duplicate	07/28/21
BG11559-MS1	Matrix Spike	07/28/21
BG11559-SRM1	Reference	07/28/21

Batch ID: BG11566 **Preparation Method:** % Solids Prep **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
21G1253-01	414_EP03_9.8	07/28/21
21G1253-02	414_EP08_8.5	07/28/21
BG11566-DUP1	Duplicate	07/28/21

Batch ID: BG11568 **Preparation Method:** SPE PFAS Extraction-Soil-EPA 537m **Prepared By:** SG

YORK Sample ID	Client Sample ID	Preparation Date
21G1253-01	414_EP03_9.8	07/28/21
21G1253-02	414_EP08_8.5	07/28/21
BG11568-BLK1	Blank	07/28/21
BG11568-BS1	LCS	07/28/21



Batch ID: BG11595 **Preparation Method:** Analysis Preparation Soil **Prepared By:** OT

YORK Sample ID	Client Sample ID	Preparation Date
21G1253-01	414_EP03_9.8	07/29/21
21G1253-02	414_EP08_8.5	07/29/21
BG11595-BLK1	Blank	07/29/21
BG11595-DUP1	Duplicate	07/29/21
BG11595-MS1	Matrix Spike	07/29/21
BG11595-SRM1	Reference	07/29/21

Batch ID: BG11620 **Preparation Method:** Analysis Preparation **Prepared By:** PAM

YORK Sample ID	Client Sample ID	Preparation Date
21G1253-01	414_EP03_9.8	07/29/21
21G1253-02	414_EP08_8.5	07/29/21

Batch ID: BG11646 **Preparation Method:** EPA 3550C **Prepared By:** SJB

YORK Sample ID	Client Sample ID	Preparation Date
21G1253-01	414_EP03_9.8	07/29/21
21G1253-02	414_EP08_8.5	07/29/21
BG11646-BLK1	Blank	07/29/21
BG11646-BS1	LCS	07/29/21
BG11646-MS1	Matrix Spike	07/29/21
BG11646-MSD1	Matrix Spike Dup	07/29/21

Batch ID: BG11647 **Preparation Method:** EPA 5035A **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
21G1253-01	414_EP03_9.8	07/28/21
21G1253-02	414_EP08_8.5	07/28/21
BG11647-BLK1	Blank	07/28/21
BG11647-BLK3	Blank	07/28/21
BG11647-BS1	LCS	07/28/21
BG11647-BSD1	LCS Dup	07/28/21

Batch ID: BG11650 **Preparation Method:** EPA 3050B **Prepared By:** ALH

YORK Sample ID	Client Sample ID	Preparation Date
21G1253-01	414_EP03_9.8	07/29/21
21G1253-02	414_EP08_8.5	07/29/21
BG11650-BLK1	Blank	07/29/21
BG11650-DUP1	Duplicate	07/29/21
BG11650-MS1	Matrix Spike	07/29/21
BG11650-PS1	Post Spike	07/29/21
BG11650-SRM1	Reference	07/29/21



Batch ID: BG11669

Preparation Method: EPA 7473 soil

Prepared By: BR

YORK Sample ID	Client Sample ID	Preparation Date
21G1253-01	414_EP03_9.8	07/29/21
21G1253-02	414_EP08_8.5	07/29/21
BG11669-BLK1	Blank	07/29/21
BG11669-DUP1	Duplicate	07/29/21
BG11669-MS1	Matrix Spike	07/29/21
BG11669-SRM1	Reference	07/29/21



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11647 - EPA 5035A

Blank (BG11647-BLK1) **Blank** Prepared: 07/28/2021 Analyzed: 07/29/2021

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11647 - EPA 5035A

Blank (BG11647-BLK1)		Blank										Prepared: 07/28/2021 Analyzed: 07/29/2021	
n-Butylbenzene	ND	0.0050	mg/kg wet										
n-Propylbenzene	ND	0.0050	"										
o-Xylene	ND	0.0050	"										
p- & m- Xylenes	ND	0.010	"										
p-Isopropyltoluene	ND	0.0050	"										
sec-Butylbenzene	ND	0.0050	"										
Styrene	ND	0.0050	"										
tert-Butyl alcohol (TBA)	ND	0.0050	"										
tert-Butylbenzene	ND	0.0050	"										
Tetrachloroethylene	ND	0.0050	"										
Toluene	ND	0.0050	"										
trans-1,2-Dichloroethylene	ND	0.0050	"										
trans-1,3-Dichloropropylene	ND	0.0050	"										
Trichloroethylene	ND	0.0050	"										
Trichlorofluoromethane	ND	0.0050	"										
Vinyl Chloride	ND	0.0050	"										
Xylenes, Total	ND	0.015	"										
<hr/>													
Surrogate: SURRE: 1,2-Dichloroethane-d4	48.1		ug/L	50.0		96.2	77-125						
Surrogate: SURRE: Toluene-d8	49.9		"	50.0		99.7	85-120						
Surrogate: SURRE: p-Bromofluorobenzene	46.4		"	50.0		92.9	76-130						

Blank (BG11647-BLK3)		holding blank-21G1253										Prepared: 07/28/2021 Analyzed: 07/29/2021	
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet										
1,1,1-Trichloroethane	ND	0.0050	"										
1,1,2,2-Tetrachloroethane	ND	0.0050	"										
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"										
1,1,2-Trichloroethane	ND	0.0050	"										
1,1-Dichloroethane	ND	0.0050	"										
1,1-Dichloroethylene	ND	0.0050	"										
1,2,3-Trichlorobenzene	ND	0.0050	"										
1,2,3-Trichloropropane	ND	0.0050	"										
1,2,4-Trichlorobenzene	ND	0.0050	"										
1,2,4-Trimethylbenzene	ND	0.0050	"										
1,2-Dibromo-3-chloropropane	ND	0.0050	"										
1,2-Dibromoethane	ND	0.0050	"										
1,2-Dichlorobenzene	ND	0.0050	"										
1,2-Dichloroethane	ND	0.0050	"										
1,2-Dichloropropane	ND	0.0050	"										
1,3,5-Trimethylbenzene	ND	0.0050	"										
1,3-Dichlorobenzene	ND	0.0050	"										
1,4-Dichlorobenzene	ND	0.0050	"										
1,4-Dioxane	ND	0.10	"										
2-Butanone	ND	0.0050	"										
2-Hexanone	ND	0.0050	"										
4-Methyl-2-pentanone	ND	0.0050	"										
Acetone	ND	0.010	"										
Acrolein	ND	0.010	"										
Acrylonitrile	ND	0.0050	"										
Benzene	ND	0.0050	"										
Bromochloromethane	ND	0.0050	"										
Bromodichloromethane	ND	0.0050	"										



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11647 - EPA 5035A

Blank (BG11647-BLK3) holding blank-21G1253

Prepared: 07/28/2021 Analyzed: 07/29/2021

Bromoform	ND	0.0050	mg/kg wet								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								

Surrogate: SURRE: 1,2-Dichloroethane-d4	47.6		ug/L	50.0		95.2	77-125				
Surrogate: SURRE: Toluene-d8	49.9		"	50.0		99.8	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	46.6		"	50.0		93.3	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11647 - EPA 5035A

LCS (BG11647-BS1)	LCS										
											Prepared: 07/28/2021 Analyzed: 07/29/2021
1,1,1,2-Tetrachloroethane	51.4		ug/L	50.0		103	75-129				
1,1,1-Trichloroethane	35.7		"	50.0		71.4	71-137				
1,1,2,2-Tetrachloroethane	58.9		"	50.0		118	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51.0		"	50.0		102	58-146				
1,1,2-Trichloroethane	53.1		"	50.0		106	83-123				
1,1-Dichloroethane	42.0		"	50.0		84.0	75-130				
1,1-Dichloroethylene	45.5		"	50.0		90.9	64-137				
1,2,3-Trichlorobenzene	49.8		"	50.0		99.7	81-140				
1,2,3-Trichloropropane	52.8		"	50.0		106	81-126				
1,2,4-Trichlorobenzene	48.8		"	50.0		97.5	80-141				
1,2,4-Trimethylbenzene	47.2		"	50.0		94.4	84-125				
1,2-Dibromo-3-chloropropane	44.1		"	50.0		88.1	74-142				
1,2-Dibromoethane	53.1		"	50.0		106	86-123				
1,2-Dichlorobenzene	50.4		"	50.0		101	85-122				
1,2-Dichloroethane	44.7		"	50.0		89.3	71-133				
1,2-Dichloropropane	47.1		"	50.0		94.2	81-122				
1,3,5-Trimethylbenzene	55.8		"	50.0		112	82-126				
1,3-Dichlorobenzene	50.0		"	50.0		100	84-124				
1,4-Dichlorobenzene	49.5		"	50.0		98.9	84-124				
1,4-Dioxane	884		"	1050		84.2	10-228				
2-Butanone	33.4		"	50.0		66.9	58-147				
2-Hexanone	41.3		"	50.0		82.7	70-139				
4-Methyl-2-pentanone	43.3		"	50.0		86.6	72-132				
Acetone	24.9		"	50.0		49.8	36-155				
Acrolein	28.4		"	50.0		56.8	10-238				
Acrylonitrile	46.5		"	50.0		92.9	66-141				
Benzene	48.6		"	50.0		97.3	77-127				
Bromochloromethane	45.0		"	50.0		90.0	74-129				
Bromodichloromethane	46.1		"	50.0		92.2	81-124				
Bromoform	55.2		"	50.0		110	80-136				
Bromomethane	84.4		"	50.0		169	32-177				
Carbon disulfide	47.6		"	50.0		95.2	10-136				
Carbon tetrachloride	39.8		"	50.0		79.5	66-143				
Chlorobenzene	48.7		"	50.0		97.4	86-120				
Chloroethane	53.5		"	50.0		107	51-142				
Chloroform	45.7		"	50.0		91.5	76-131				
Chloromethane	44.4		"	50.0		88.7	49-132				
cis-1,2-Dichloroethylene	42.8		"	50.0		85.5	74-132				
cis-1,3-Dichloropropylene	49.2		"	50.0		98.4	81-129				
Cyclohexane	34.4		"	50.0		68.8	70-130	Low Bias			
Dibromochloromethane	54.7		"	50.0		109	10-200				
Dibromomethane	47.2		"	50.0		94.5	83-124				
Dichlorodifluoromethane	62.3		"	50.0		125	28-158				
Ethyl Benzene	45.3		"	50.0		90.6	84-125				
Hexachlorobutadiene	45.3		"	50.0		90.6	83-133				
Isopropylbenzene	43.9		"	50.0		87.9	81-127				
Methyl acetate	42.3		"	50.0		84.6	41-143				
Methyl tert-butyl ether (MTBE)	43.4		"	50.0		86.7	74-131				
Methylcyclohexane	44.4		"	50.0		88.7	70-130				
Methylene chloride	43.6		"	50.0		87.3	57-141				
n-Butylbenzene	41.3		"	50.0		82.7	80-130				



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11647 - EPA 5035A

LCS (BG11647-BS1)	LCS	Prepared: 07/28/2021 Analyzed: 07/29/2021									
n-Propylbenzene	43.3		ug/L	50.0		86.5	74-136				
o-Xylene	46.6		"	50.0		93.2	83-123				
p- & m- Xylenes	90.6		"	100		90.6	82-128				
p-Isopropyltoluene	45.1		"	50.0		90.1	85-125				
sec-Butylbenzene	45.2		"	50.0		90.4	83-125				
Styrene	51.2		"	50.0		102	86-126				
tert-Butyl alcohol (TBA)	181		"	250		72.3	70-130				
tert-Butylbenzene	39.8		"	50.0		79.5	80-127	Low Bias			
Tetrachloroethylene	40.8		"	50.0		81.7	80-129				
Toluene	46.6		"	50.0		93.2	85-121				
trans-1,2-Dichloroethylene	44.4		"	50.0		88.8	72-132				
trans-1,3-Dichloropropylene	50.4		"	50.0		101	78-132				
Trichloroethylene	42.0		"	50.0		84.0	84-123				
Trichlorofluoromethane	47.1		"	50.0		94.3	62-140				
Vinyl Chloride	52.3		"	50.0		105	52-130				
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Surrogate: SURR: 1,2-Dichloroethane-d4	46.6		"	50.0		93.2	77-125				
Surrogate: SURR: Toluene-d8	49.1		"	50.0		98.3	85-120				
Surrogate: SURR: p-Bromofluorobenzene	47.2		"	50.0		94.4	76-130				

LCS Dup (BG11647-BS1)	LCS Dup	Prepared: 07/28/2021 Analyzed: 07/29/2021									
1,1,1,2-Tetrachloroethane	50.1		ug/L	50.0		100	75-129		2.66	30	
1,1,1-Trichloroethane	38.8		"	50.0		77.5	71-137		8.14	30	
1,1,2,2-Tetrachloroethane	53.3		"	50.0		107	79-129		10.0	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0		"	50.0		100	58-146		2.08	30	
1,1,2-Trichloroethane	51.3		"	50.0		103	83-123		3.43	30	
1,1-Dichloroethane	41.3		"	50.0		82.7	75-130		1.66	30	
1,1-Dichloroethylene	41.5		"	50.0		83.0	64-137		9.13	30	
1,2,3-Trichlorobenzene	47.6		"	50.0		95.1	81-140		4.70	30	
1,2,3-Trichloropropane	48.3		"	50.0		96.6	81-126		8.92	30	
1,2,4-Trichlorobenzene	49.3		"	50.0		98.6	80-141		1.12	30	
1,2,4-Trimethylbenzene	45.2		"	50.0		90.4	84-125		4.31	30	
1,2-Dibromo-3-chloropropane	40.8		"	50.0		81.6	74-142		7.68	30	
1,2-Dibromoethane	51.4		"	50.0		103	86-123		3.33	30	
1,2-Dichlorobenzene	48.8		"	50.0		97.5	85-122		3.35	30	
1,2-Dichloroethane	44.1		"	50.0		88.2	71-133		1.26	30	
1,2-Dichloropropane	44.8		"	50.0		89.7	81-122		4.96	30	
1,3,5-Trimethylbenzene	53.3		"	50.0		107	82-126		4.58	30	
1,3-Dichlorobenzene	48.5		"	50.0		96.9	84-124		3.19	30	
1,4-Dichlorobenzene	48.1		"	50.0		96.3	84-124		2.75	30	
1,4-Dioxane	846		"	1050		80.6	10-228		4.37	30	
2-Butanone	29.6		"	50.0		59.2	58-147		12.2	30	
2-Hexanone	38.9		"	50.0		77.8	70-139		6.06	30	
4-Methyl-2-pentanone	39.6		"	50.0		79.3	72-132		8.82	30	
Acetone	22.6		"	50.0		45.1	36-155		9.87	30	
Acrolein	24.3		"	50.0		48.5	10-238		15.8	30	
Acrylonitrile	42.8		"	50.0		85.5	66-141		8.34	30	
Benzene	47.2		"	50.0		94.4	77-127		3.01	30	
Bromochloromethane	41.7		"	50.0		83.5	74-129		7.49	30	
Bromodichloromethane	44.2		"	50.0		88.4	81-124		4.14	30	
Bromoform	51.6		"	50.0		103	80-136		6.68	30	
Bromomethane	71.0		"	50.0		142	32-177		17.2	30	



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG11647 - EPA 5035A											
LCS Dup (BG11647-BS01)	LCS Dup	Prepared: 07/28/2021 Analyzed: 07/29/2021									
Carbon disulfide	45.2		ug/L	50.0		90.4	10-136		5.17	30	
Carbon tetrachloride	39.3		"	50.0		78.6	66-143		1.11	30	
Chlorobenzene	47.8		"	50.0		95.6	86-120		1.80	30	
Chloroethane	50.8		"	50.0		102	51-142		5.29	30	
Chloroform	44.4		"	50.0		88.8	76-131		2.97	30	
Chloromethane	44.0		"	50.0		88.0	49-132		0.792	30	
cis-1,2-Dichloroethylene	41.6		"	50.0		83.2	74-132		2.75	30	
cis-1,3-Dichloropropylene	48.5		"	50.0		97.1	81-129		1.35	30	
Cyclohexane	34.2		"	50.0		68.5	70-130	Low Bias	0.524	30	
Dibromochloromethane	52.4		"	50.0		105	10-200		4.37	30	
Dibromomethane	45.8		"	50.0		91.5	83-124		3.18	30	
Dichlorodifluoromethane	61.6		"	50.0		123	28-158		1.03	30	
Ethyl Benzene	45.6		"	50.0		91.2	84-125		0.638	30	
Hexachlorobutadiene	44.8		"	50.0		89.7	83-133		1.02	30	
Isopropylbenzene	42.3		"	50.0		84.6	81-127		3.73	30	
Methyl acetate	37.9		"	50.0		75.8	41-143		11.0	30	
Methyl tert-butyl ether (MTBE)	43.5		"	50.0		87.0	74-131		0.322	30	
Methylcyclohexane	46.1		"	50.0		92.3	70-130		3.93	30	
Methylene chloride	41.0		"	50.0		81.9	57-141		6.36	30	
n-Butylbenzene	42.8		"	50.0		85.6	80-130		3.45	30	
n-Propylbenzene	42.8		"	50.0		85.5	74-136		1.19	30	
o-Xylene	46.9		"	50.0		93.8	83-123		0.578	30	
p- & m- Xylenes	90.7		"	100		90.7	82-128		0.143	30	
p-Isopropyltoluene	44.3		"	50.0		88.7	85-125		1.63	30	
sec-Butylbenzene	44.0		"	50.0		88.1	83-125		2.62	30	
Styrene	50.3		"	50.0		101	86-126		1.71	30	
tert-Butyl alcohol (TBA)	157		"	250		63.0	70-130	Low Bias	13.7	30	
tert-Butylbenzene	38.2		"	50.0		76.4	80-127	Low Bias	3.92	30	
Tetrachloroethylene	41.8		"	50.0		83.6	80-129		2.28	30	
Toluene	45.9		"	50.0		91.9	85-121		1.45	30	
trans-1,2-Dichloroethylene	43.4		"	50.0		86.9	72-132		2.23	30	
trans-1,3-Dichloropropylene	49.9		"	50.0		99.9	78-132		0.838	30	
Trichloroethylene	41.2		"	50.0		82.3	84-123	Low Bias	2.04	30	
Trichlorofluoromethane	45.6		"	50.0		91.3	62-140		3.21	30	
Vinyl Chloride	48.7		"	50.0		97.5	52-130		7.12	30	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>47.4</i>		<i>"</i>	<i>50.0</i>		<i>94.9</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>49.6</i>		<i>"</i>	<i>50.0</i>		<i>99.3</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>45.4</i>		<i>"</i>	<i>50.0</i>		<i>90.9</i>	<i>76-130</i>				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11540 - EPA 3546 SVOA

Blank (BG11540-BLK1) Blank Prepared: 07/28/2021 Analyzed: 07/29/2021

1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								
Caprolactam	ND	0.0830	"								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								



Semivolatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11540 - EPA 3546 SVOA

Blank (BG11540-BLK1) Blank Prepared: 07/28/2021 Analyzed: 07/29/2021

Dibenzofuran	ND	0.0416	mg/kg wet								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Pyridine	ND	0.166	"								
<i>Surrogate: SURR: 2-Fluorophenol</i>	<i>1.34</i>		<i>"</i>	<i>1.66</i>		<i>80.5</i>	<i>20-108</i>				
<i>Surrogate: SURR: Phenol-d5</i>	<i>1.22</i>		<i>"</i>	<i>1.66</i>		<i>73.4</i>	<i>23-114</i>				
<i>Surrogate: SURR: Nitrobenzene-d5</i>	<i>0.819</i>		<i>"</i>	<i>0.831</i>		<i>98.6</i>	<i>22-108</i>				
<i>Surrogate: SURR: 2-Fluorobiphenyl</i>	<i>0.565</i>		<i>"</i>	<i>0.831</i>		<i>68.1</i>	<i>21-113</i>				
<i>Surrogate: SURR: 2,4,6-Tribromophenol</i>	<i>0.844</i>		<i>"</i>	<i>1.66</i>		<i>50.8</i>	<i>19-110</i>				
<i>Surrogate: SURR: Terphenyl-d14</i>	<i>0.606</i>		<i>"</i>	<i>0.831</i>		<i>73.0</i>	<i>24-116</i>				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG11540 - EPA 3546 SVOA											
LCS (BG11540-BS1)	LCS	Prepared: 07/28/2021 Analyzed: 07/29/2021									
1,1-Biphenyl	0.512	0.0416	mg/kg wet	0.831		61.6	18-111				
1,2,4,5-Tetrachlorobenzene	0.486	0.0830	"	0.831		58.6	21-131				
1,2-Diphenylhydrazine (as Azobenzene)	0.583	0.0416	"	0.831		70.2	17-137				
2,3,4,6-Tetrachlorophenol	0.640	0.0830	"	0.831		77.1	30-130				
2,4,5-Trichlorophenol	0.480	0.0416	"	0.831		57.8	27-118				
2,4,6-Trichlorophenol	0.461	0.0416	"	0.831		55.6	31-120				
2,4-Dichlorophenol	0.503	0.0416	"	0.831		60.6	20-127				
2,4-Dimethylphenol	0.572	0.0416	"	0.831		68.9	14-132				
2,4-Dinitrophenol	1.16	0.0830	"	0.831		139	10-171				
2,4-Dinitrotoluene	0.497	0.0416	"	0.831		59.8	34-131				
2,6-Dinitrotoluene	0.526	0.0416	"	0.831		63.3	31-128				
2-Chloronaphthalene	0.482	0.0416	"	0.831		58.0	31-117				
2-Chlorophenol	0.509	0.0416	"	0.831		61.3	33-113				
2-Methylnaphthalene	0.537	0.0416	"	0.831		64.6	12-138				
2-Methylphenol	0.557	0.0416	"	0.831		67.1	10-136				
2-Nitroaniline	0.536	0.0830	"	0.831		64.6	27-132				
2-Nitrophenol	0.519	0.0416	"	0.831		62.4	17-129				
3- & 4-Methylphenols	0.472	0.0416	"	0.831		56.8	29-103				
3,3-Dichlorobenzidine	0.861	0.0416	"	0.831		104	22-149				
3-Nitroaniline	0.470	0.0830	"	0.831		56.6	20-133				
4,6-Dinitro-2-methylphenol	0.407	0.0830	"	0.831		49.0	10-143				
4-Bromophenyl phenyl ether	0.352	0.0416	"	0.831		42.4	29-120				
4-Chloro-3-methylphenol	0.630	0.0416	"	0.831		75.8	24-129				
4-Chloroaniline	0.414	0.0416	"	0.831		49.9	10-132				
4-Chlorophenyl phenyl ether	0.465	0.0416	"	0.831		56.0	27-124				
4-Nitroaniline	0.496	0.0830	"	0.831		59.7	16-128				
4-Nitrophenol	0.756	0.0830	"	0.831		91.0	10-141				
Acenaphthene	0.498	0.0416	"	0.831		59.9	30-121				
Acenaphthylene	0.496	0.0416	"	0.831		59.8	30-115				
Acetophenone	0.554	0.0416	"	0.831		66.7	20-112				
Aniline	0.580	0.166	"	0.831		69.8	10-119				
Anthracene	0.517	0.0416	"	0.831		62.2	34-118				
Atrazine	0.421	0.0416	"	0.831		50.7	26-112				
Benzaldehyde	0.507	0.0416	"	0.831		61.0	21-100				
Benzo(a)anthracene	0.492	0.0416	"	0.831		59.2	32-122				
Benzo(a)pyrene	0.518	0.0416	"	0.831		62.4	29-133				
Benzo(b)fluoranthene	0.503	0.0416	"	0.831		60.6	25-133				
Benzo(g,h,i)perylene	0.451	0.0416	"	0.831		54.3	10-143				
Benzo(k)fluoranthene	0.496	0.0416	"	0.831		59.7	25-128				
Benzoic acid	0.413	0.0416	"	0.831		49.7	10-140				
Benzyl alcohol	0.559	0.0416	"	0.831		67.4	30-115				
Benzyl butyl phthalate	0.553	0.0416	"	0.831		66.6	26-126				
Bis(2-chloroethoxy)methane	0.601	0.0416	"	0.831		72.3	19-132				
Bis(2-chloroethyl)ether	0.546	0.0416	"	0.831		65.7	19-125				
Bis(2-chloroisopropyl)ether	0.666	0.0416	"	0.831		80.2	20-135				
Bis(2-ethylhexyl)phthalate	0.565	0.0416	"	0.831		68.1	10-155				
Caprolactam	0.586	0.0830	"	0.831		70.6	10-127				
Carbazole	0.520	0.0416	"	0.831		62.6	35-123				
Chrysene	0.493	0.0416	"	0.831		59.4	32-123				
Dibenzo(a,h)anthracene	0.497	0.0416	"	0.831		59.8	10-136				
Dibenzofuran	0.483	0.0416	"	0.831		58.2	29-121				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11540 - EPA 3546 SVOA

LCS (BG11540-BS1)	LCS	Prepared: 07/28/2021 Analyzed: 07/29/2021									
Diethyl phthalate	0.562	0.0416	mg/kg wet	0.831		67.7	34-116				
Dimethyl phthalate	0.513	0.0416	"	0.831		61.8	35-124				
Di-n-butyl phthalate	0.556	0.0416	"	0.831		67.0	31-116				
Di-n-octyl phthalate	0.577	0.0416	"	0.831		69.5	26-136				
Diphenylamine	0.481	0.0830	"	0.831		57.9	40-140				
Fluoranthene	0.497	0.0416	"	0.831		59.8	33-122				
Fluorene	0.488	0.0416	"	0.831		58.8	29-123				
Hexachlorobenzene	0.553	0.0416	"	0.831		66.6	21-124				
Hexachlorobutadiene	0.512	0.0416	"	0.831		61.6	10-149				
Hexachlorocyclopentadiene	0.319	0.0416	"	0.831		38.4	10-129				
Hexachloroethane	0.576	0.0416	"	0.831		69.3	28-108				
Indeno(1,2,3-cd)pyrene	0.472	0.0416	"	0.831		56.8	10-135				
Isophorone	0.651	0.0416	"	0.831		78.4	20-132				
Naphthalene	0.539	0.0416	"	0.831		64.8	23-124				
Nitrobenzene	0.685	0.0416	"	0.831		82.5	13-132				
N-Nitrosodimethylamine	0.609	0.0416	"	0.831		73.4	11-129				
N-nitroso-di-n-propylamine	0.628	0.0416	"	0.831		75.6	24-119				
N-Nitrosodiphenylamine	0.492	0.0416	"	0.831		59.2	22-152				
Pentachlorophenol	0.483	0.0416	"	0.831		58.1	10-139				
Phenanthrene	0.487	0.0416	"	0.831		58.7	33-123				
Phenol	0.565	0.0416	"	0.831		68.1	23-115				
Pyrene	0.491	0.0416	"	0.831		59.1	24-130				
Pyridine	0.475	0.166	"	0.831		57.2	10-91				
Surrogate: SURR: 2-Fluorophenol	1.16		"	1.66		69.9	20-108				
Surrogate: SURR: Phenol-d5	1.13		"	1.66		68.2	23-114				
Surrogate: SURR: Nitrobenzene-d5	0.697		"	0.831		83.9	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	0.500		"	0.831		60.2	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	0.772		"	1.66		46.5	19-110				
Surrogate: SURR: Terphenyl-d14	0.517		"	0.831		62.2	24-116				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11540 - EPA 3546 SVOA

Matrix Spike (BG11540-MS1) Matrix Spike *Source sample: 21G1202-02 (Matrix Spike) Prepared: 07/28/2021 Analyzed: 07/29/2021

1,1-Biphenyl	0.428	0.0877	mg/kg dry	0.876	ND	48.8	10-130				
1,2,4,5-Tetrachlorobenzene	0.429	0.175	"	0.876	ND	49.0	10-133				
1,2-Diphenylhydrazine (as Azobenzene)	0.395	0.0877	"	0.876	ND	45.0	10-144				
2,3,4,6-Tetrachlorophenol	0.463	0.175	"	0.876	ND	52.8	30-130				
2,4,5-Trichlorophenol	0.418	0.0877	"	0.876	ND	47.8	10-127				
2,4,6-Trichlorophenol	0.427	0.0877	"	0.876	ND	48.7	10-132				
2,4-Dichlorophenol	0.425	0.0877	"	0.876	ND	48.6	10-128				
2,4-Dimethylphenol	0.451	0.0877	"	0.876	ND	51.4	10-137				
2,4-Dinitrophenol	0.104	0.175	"	0.876	ND	11.8	10-171				
2,4-Dinitrotoluene	0.421	0.0877	"	0.876	ND	48.1	16-135				
2,6-Dinitrotoluene	0.442	0.0877	"	0.876	ND	50.5	18-131				
2-Chloronaphthalene	0.396	0.0877	"	0.876	ND	45.2	10-129				
2-Chlorophenol	0.421	0.0877	"	0.876	ND	48.1	15-116				
2-Methylnaphthalene	0.424	0.0877	"	0.876	ND	48.4	10-147				
2-Methylphenol	0.450	0.0877	"	0.876	ND	51.4	10-136				
2-Nitroaniline	0.410	0.175	"	0.876	ND	46.8	10-137				
2-Nitrophenol	0.430	0.0877	"	0.876	ND	49.1	10-129				
3- & 4-Methylphenols	0.387	0.0877	"	0.876	ND	44.2	10-123				
3,3-Dichlorobenzidine	0.657	0.0877	"	0.876	ND	75.0	10-155				
3-Nitroaniline	0.376	0.175	"	0.876	ND	42.9	12-133				
4,6-Dinitro-2-methylphenol	0.203	0.175	"	0.876	ND	23.1	10-155				
4-Bromophenyl phenyl ether	0.407	0.0877	"	0.876	ND	46.4	14-128				
4-Chloro-3-methylphenol	0.432	0.0877	"	0.876	ND	49.3	10-134				
4-Chloroaniline	0.343	0.0877	"	0.876	ND	39.2	10-145				
4-Chlorophenyl phenyl ether	0.407	0.0877	"	0.876	ND	46.4	14-130				
4-Nitroaniline	0.401	0.175	"	0.876	ND	45.8	10-147				
4-Nitrophenol	0.393	0.175	"	0.876	ND	44.8	10-137				
Acenaphthene	0.430	0.0877	"	0.876	ND	49.0	10-146				
Acenaphthylene	0.407	0.0877	"	0.876	ND	46.4	10-134				
Acetophenone	0.468	0.0877	"	0.876	ND	53.4	10-116				
Aniline	0.414	0.351	"	0.876	ND	47.3	10-123				
Anthracene	0.447	0.0877	"	0.876	ND	51.0	10-142				
Atrazine	0.476	0.0877	"	0.876	ND	54.3	19-115				
Benzaldehyde	0.451	0.0877	"	0.876	ND	51.5	10-125				
Benzo(a)anthracene	0.500	0.0877	"	0.876	0.0888	46.9	10-158				
Benzo(a)pyrene	0.611	0.0877	"	0.876	0.129	54.9	10-180				
Benzo(b)fluoranthene	0.608	0.0877	"	0.876	0.139	53.5	10-200				
Benzo(g,h,i)perylene	0.580	0.0877	"	0.876	0.115	53.1	10-138				
Benzo(k)fluoranthene	0.523	0.0877	"	0.876	0.116	46.5	10-197				
Benzoic acid	0.0778	0.0877	"	0.876	ND	8.88	10-166	Low Bias			
Benzyl alcohol	0.418	0.0877	"	0.876	ND	47.7	12-124				
Benzyl butyl phthalate	0.461	0.0877	"	0.876	ND	52.6	10-154				
Bis(2-chloroethoxy)methane	0.416	0.0877	"	0.876	ND	47.4	10-132				
Bis(2-chloroethyl)ether	0.404	0.0877	"	0.876	ND	46.1	10-119				
Bis(2-chloroisopropyl)ether	0.450	0.0877	"	0.876	ND	51.4	10-139				
Bis(2-ethylhexyl)phthalate	0.544	0.0877	"	0.876	0.0625	55.0	10-167				
Caprolactam	0.465	0.175	"	0.876	ND	53.1	10-132				
Carbazole	0.440	0.0877	"	0.876	ND	50.2	10-167				
Chrysene	0.538	0.0877	"	0.876	0.130	46.5	10-156				
Dibenzo(a,h)anthracene	0.476	0.0877	"	0.876	ND	54.3	10-137				
Dibenzofuran	0.409	0.0877	"	0.876	ND	46.6	10-147				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11540 - EPA 3546 SVOA

Matrix Spike (BG11540-MS1)	Matrix Spike	*Source sample: 21G1202-02 (Matrix Spike)						Prepared: 07/28/2021 Analyzed: 07/29/2021	
Diethyl phthalate	0.423	0.0877	mg/kg dry	0.876	ND	48.3	20-120		
Dimethyl phthalate	0.528	0.0877	"	0.876	0.0632	53.0	18-131		
Di-n-butyl phthalate	0.457	0.0877	"	0.876	ND	52.2	10-137		
Di-n-octyl phthalate	0.583	0.0877	"	0.876	ND	66.6	10-180		
Diphenylamine	0.484	0.175	"	0.876	ND	55.3	40-140		
Fluoranthene	0.614	0.0877	"	0.876	0.202	47.0	10-160		
Fluorene	0.415	0.0877	"	0.876	ND	47.4	10-157		
Hexachlorobenzene	0.412	0.0877	"	0.876	ND	47.0	10-137		
Hexachlorobutadiene	0.411	0.0877	"	0.876	ND	47.0	10-132		
Hexachlorocyclopentadiene	0.307	0.0877	"	0.876	ND	35.0	10-106		
Hexachloroethane	0.396	0.0877	"	0.876	ND	45.2	10-110		
Indeno(1,2,3-cd)pyrene	0.636	0.0877	"	0.876	0.131	57.7	10-144		
Isophorone	0.421	0.0877	"	0.876	ND	48.0	10-132		
Naphthalene	0.430	0.0877	"	0.876	ND	49.0	10-141		
Nitrobenzene	0.428	0.0877	"	0.876	ND	48.9	10-131		
N-Nitrosodimethylamine	0.400	0.0877	"	0.876	ND	45.6	10-126		
N-nitroso-di-n-propylamine	0.407	0.0877	"	0.876	ND	46.4	10-125		
N-Nitrosodiphenylamine	0.479	0.0877	"	0.876	ND	54.6	10-177		
Pentachlorophenol	0.402	0.0877	"	0.876	ND	45.9	10-153		
Phenanthrene	0.462	0.0877	"	0.876	0.0548	46.5	10-148		
Phenol	0.444	0.0877	"	0.876	ND	50.7	10-126		
Pyrene	0.550	0.0877	"	0.876	0.160	44.5	10-165		
Pyridine	0.297	0.351	"	0.876	ND	33.9	10-83		
Surrogate: SURR: 2-Fluorophenol	0.894		"	1.75		51.0	20-108		
Surrogate: SURR: Phenol-d5	0.861		"	1.75		49.1	23-114		
Surrogate: SURR: Nitrobenzene-d5	0.433		"	0.876		49.4	22-108		
Surrogate: SURR: 2-Fluorobiphenyl	0.421		"	0.876		48.1	21-113		
Surrogate: SURR: 2,4,6-Tribromophenol	0.929		"	1.75		53.0	19-110		
Surrogate: SURR: Terphenyl-d14	0.437		"	0.876		49.9	24-116		



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG11540 - EPA 3546 SVOA											
Matrix Spike Dup (BG11540-1) Matrix Spike Dup						Source sample: 21G1202-02 (Matrix Spike Dup) Prepared: 07/28/2021 Analyzed: 07/29/2021					
1,1-Biphenyl	0.454	0.0877	mg/kg dry	0.876	ND	51.8	10-130		6.04	30	
1,2,4,5-Tetrachlorobenzene	0.509	0.175	"	0.876	ND	58.1	10-133		17.0	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.455	0.0877	"	0.876	ND	51.9	10-144		14.2	30	
2,3,4,6-Tetrachlorophenol	0.561	0.175	"	0.876	ND	64.1	30-130		19.3	30	
2,4,5-Trichlorophenol	0.496	0.0877	"	0.876	ND	56.6	10-127		16.9	30	
2,4,6-Trichlorophenol	0.478	0.0877	"	0.876	ND	54.6	10-132		11.3	30	
2,4-Dichlorophenol	0.519	0.0877	"	0.876	ND	59.3	10-128		19.9	30	
2,4-Dimethylphenol	0.591	0.0877	"	0.876	ND	67.4	10-137		26.9	30	
2,4-Dinitrophenol	0.133	0.175	"	0.876	ND	15.2	10-171		24.9	30	
2,4-Dinitrotoluene	0.482	0.0877	"	0.876	ND	55.0	16-135		13.5	30	
2,6-Dinitrotoluene	0.533	0.0877	"	0.876	ND	60.9	18-131		18.7	30	
2-Chloronaphthalene	0.468	0.0877	"	0.876	ND	53.4	10-129		16.7	30	
2-Chlorophenol	0.480	0.0877	"	0.876	ND	54.8	15-116		13.1	30	
2-Methylnaphthalene	0.540	0.0877	"	0.876	ND	61.7	10-147		24.1	30	
2-Methylphenol	0.487	0.0877	"	0.876	ND	55.6	10-136		7.93	30	
2-Nitroaniline	0.470	0.175	"	0.876	ND	53.7	10-137		13.7	30	
2-Nitrophenol	0.537	0.0877	"	0.876	ND	61.3	10-129		22.0	30	
3- & 4-Methylphenols	0.451	0.0877	"	0.876	ND	51.5	10-123		15.4	30	
3,3-Dichlorobenzidine	0.868	0.0877	"	0.876	ND	99.1	10-155		27.7	30	
3-Nitroaniline	0.465	0.175	"	0.876	ND	53.1	12-133		21.3	30	
4,6-Dinitro-2-methylphenol	0.231	0.175	"	0.876	ND	26.3	10-155		12.9	30	
4-Bromophenyl phenyl ether	0.479	0.0877	"	0.876	ND	54.6	14-128		16.3	30	
4-Chloro-3-methylphenol	0.546	0.0877	"	0.876	ND	62.3	10-134		23.4	30	
4-Chloroaniline	0.451	0.0877	"	0.876	ND	51.5	10-145		27.2	30	
4-Chlorophenyl phenyl ether	0.462	0.0877	"	0.876	ND	52.7	14-130		12.8	30	
4-Nitroaniline	0.482	0.175	"	0.876	ND	55.0	10-147		18.3	30	
4-Nitrophenol	0.463	0.175	"	0.876	ND	52.9	10-137		16.5	30	
Acenaphthene	0.486	0.0877	"	0.876	ND	55.5	10-146		12.4	30	
Acenaphthylene	0.452	0.0877	"	0.876	ND	51.6	10-134		10.6	30	
Acetophenone	0.532	0.0877	"	0.876	ND	60.7	10-116		12.8	30	
Aniline	0.457	0.351	"	0.876	ND	52.2	10-123		9.81	30	
Anthracene	0.515	0.0877	"	0.876	ND	58.8	10-142		14.3	30	
Atrazine	0.574	0.0877	"	0.876	ND	65.5	19-115		18.7	30	
Benzaldehyde	0.518	0.0877	"	0.876	ND	59.1	10-125		13.7	30	
Benzo(a)anthracene	0.564	0.0877	"	0.876	0.0888	54.2	10-158		12.0	30	
Benzo(a)pyrene	0.671	0.0877	"	0.876	0.129	61.8	10-180		9.41	30	
Benzo(b)fluoranthene	0.631	0.0877	"	0.876	0.139	56.2	10-200		3.74	30	
Benzo(g,h,i)perylene	0.615	0.0877	"	0.876	0.115	57.0	10-138		5.75	30	
Benzo(k)fluoranthene	0.590	0.0877	"	0.876	0.116	54.1	10-197		12.0	30	
Benzoic acid	0.0862	0.0877	"	0.876	ND	9.84	10-166	Low Bias	10.3	30	
Benzyl alcohol	0.491	0.0877	"	0.876	ND	56.0	12-124		16.0	30	
Benzyl butyl phthalate	0.569	0.0877	"	0.876	ND	65.0	10-154		21.1	30	
Bis(2-chloroethoxy)methane	0.519	0.0877	"	0.876	ND	59.2	10-132		22.1	30	
Bis(2-chloroethyl)ether	0.468	0.0877	"	0.876	ND	53.4	10-119		14.8	30	
Bis(2-chloroisopropyl)ether	0.471	0.0877	"	0.876	ND	53.8	10-139		4.57	30	
Bis(2-ethylhexyl)phthalate	0.680	0.0877	"	0.876	0.0625	70.5	10-167		22.2	30	
Caprolactam	0.597	0.175	"	0.876	ND	68.2	10-132		24.8	30	
Carbazole	0.494	0.0877	"	0.876	ND	56.4	10-167		11.6	30	
Chrysene	0.576	0.0877	"	0.876	0.130	50.9	10-156		6.79	30	
Dibenzo(a,h)anthracene	0.603	0.0877	"	0.876	ND	68.8	10-137		23.5	30	
Dibenzofuran	0.473	0.0877	"	0.876	ND	54.0	10-147		14.6	30	



Semivolatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11540 - EPA 3546 SVOA

Matrix Spike Dup (BG11540-1) Matrix Spike Dup Source sample: 21G1202-02 (Matrix Spike Dup) Prepared: 07/28/2021 Analyzed: 07/29/2021

Diethyl phthalate	0.486	0.0877	mg/kg dry	0.876	ND	55.4	20-120		13.7	30	
Dimethyl phthalate	0.554	0.0877	"	0.876	0.0632	56.0	18-131		4.80	30	
Di-n-butyl phthalate	0.532	0.0877	"	0.876	ND	60.7	10-137		15.2	30	
Di-n-octyl phthalate	0.678	0.0877	"	0.876	ND	77.4	10-180		15.0	30	
Diphenylamine	0.569	0.175	"	0.876	ND	65.0	40-140		16.1	30	
Fluoranthene	0.632	0.0877	"	0.876	0.202	49.1	10-160		2.92	30	
Fluorene	0.485	0.0877	"	0.876	ND	55.4	10-157		15.6	30	
Hexachlorobenzene	0.474	0.0877	"	0.876	ND	54.1	10-137		13.9	30	
Hexachlorobutadiene	0.502	0.0877	"	0.876	ND	57.3	10-132		19.8	30	
Hexachlorocyclopentadiene	0.350	0.0877	"	0.876	ND	40.0	10-106		13.2	30	
Hexachloroethane	0.463	0.0877	"	0.876	ND	52.9	10-110		15.7	30	
Indeno(1,2,3-cd)pyrene	0.695	0.0877	"	0.876	0.131	64.4	10-144		8.84	30	
Isophorone	0.543	0.0877	"	0.876	ND	62.0	10-132		25.5	30	
Naphthalene	0.496	0.0877	"	0.876	ND	56.6	10-141		14.4	30	
Nitrobenzene	0.505	0.0877	"	0.876	ND	57.7	10-131		16.5	30	
N-Nitrosodimethylamine	0.436	0.0877	"	0.876	ND	49.8	10-126		8.72	30	
N-nitroso-di-n-propylamine	0.464	0.0877	"	0.876	ND	53.0	10-125		13.2	30	
N-Nitrosodiphenylamine	0.560	0.0877	"	0.876	ND	63.9	10-177		15.7	30	
Pentachlorophenol	0.449	0.0877	"	0.876	ND	51.2	10-153		10.9	30	
Phenanthrene	0.504	0.0877	"	0.876	0.0548	51.3	10-148		8.71	30	
Phenol	0.479	0.0877	"	0.876	ND	54.6	10-126		7.44	30	
Pyrene	0.585	0.0877	"	0.876	0.160	48.4	10-165		6.05	30	
Pyridine	0.360	0.351	"	0.876	ND	41.0	10-83		19.0	30	
Surrogate: SURR: 2-Fluorophenol	0.987		"	1.75		56.3	20-108				
Surrogate: SURR: Phenol-d5	0.900		"	1.75		51.4	23-114				
Surrogate: SURR: Nitrobenzene-d5	0.512		"	0.876		58.5	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	0.463		"	0.876		52.8	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1.03		"	1.75		58.6	19-110				
Surrogate: SURR: Terphenyl-d14	0.501		"	0.876		57.2	24-116				



Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BG11646 - EPA 3550C												
Blank (BG11646-BLK1)	Blank										Prepared: 07/29/2021 Analyzed: 07/30/2021	
1,4-Dioxane	ND	19.8	ug/kg									
<i>Surrogate: 1,4-Dioxane-d8</i>	356		"	495		72.0	39-127.5					
LCS (BG11646-BS1)	LCS										Prepared: 07/29/2021 Analyzed: 07/30/2021	
1,4-Dioxane	495	19.8	ug/kg	495		100	40-130					
<i>Surrogate: 1,4-Dioxane-d8</i>	267		"	495		54.0	39-127.5					
Matrix Spike (BG11646-MS1)	Matrix Spike	*Source sample: 21G1007-01 (Matrix Spike)										Prepared: 07/29/2021 Analyzed: 07/30/2021
1,4-Dioxane	495	19.8	ug/kg	495	ND	100	40-130					
<i>Surrogate: 1,4-Dioxane-d8</i>	228		"	495		46.0	40-130					
Matrix Spike Dup (BG11646-MS1)	Matrix Spike Dup	*Source sample: 21G1007-01 (Matrix Spike Dup)										Prepared: 07/29/2021 Analyzed: 07/30/2021
1,4-Dioxane	517	19.8	ug/kg	495	ND	104	40-130		4.31	30		
<i>Surrogate: 1,4-Dioxane-d8</i>	228		"	495		46.0	40-130					



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11568 - SPE PFAS Extraction-Soil-EPA 537m

Blank (BG11568-BLK1) Blank Prepared: 07/28/2021 Analyzed: 07/29/2021

Perfluorobutanesulfonic acid (PFBS)	ND	0.231	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.231	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.231	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.231	"								
Perfluorooctanoic acid (PFOA)	ND	0.231	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.231	"								
Perfluorononanoic acid (PFNA)	ND	0.231	"								
Perfluorodecanoic acid (PFDA)	ND	0.231	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.231	"								
Perfluorododecanoic acid (PFDoA)	ND	0.231	"								
Perfluorotridecanoic acid (PFTriDA)	ND	0.231	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.231	"								
N-MeFOSAA	ND	0.231	"								
N-EtFOSAA	ND	0.231	"								
Perfluoropentanoic acid (PFPeA)	ND	0.231	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.231	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.231	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.231	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	ND	0.231	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	ND	0.231	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.231	"								
Surrogate: M3PFBS	4.30		"	4.30		100	25-150				
Surrogate: M5PFHxA	5.05		"	4.63		109	25-150				
Surrogate: M4PFHpA	3.98		"	4.63		86.1	25-150				
Surrogate: M3PFHxS	3.62		"	4.38		82.7	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.54		"	4.63		98.1	25-150				
Surrogate: M6PFDA	4.36		"	4.63		94.3	25-150				
Surrogate: M7PFUdA	4.13		"	4.63		89.2	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	4.33		"	4.63		93.6	25-150				
Surrogate: M2PFTeDA	3.48		"	4.63		75.2	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	5.56		"	4.63		120	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	4.18		"	4.43		94.4	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.43		"	4.63		117	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.49		"	4.63		75.5	10-150				
Surrogate: d3-N-MeFOSAA	3.37		"	4.63		72.8	25-150				
Surrogate: d5-N-EtFOSAA	3.84		"	4.63		83.0	25-150				
Surrogate: M2-6:2 FTS	2.86		"	4.39		65.1	25-200				
Surrogate: M2-8:2 FTS	2.57		"	4.43		58.0	25-200				
Surrogate: M9PFNA	5.27		"	4.63		114	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11568 - SPE PFAS Extraction-Soil-EPA 537m

LCS (BG11568-BS1)	LCS	Prepared: 07/28/2021 Analyzed: 07/29/2021									
Perfluorobutanesulfonic acid (PFBS)	4.04	0.243	ug/kg wet	4.31		93.8	50-130				
Perfluorohexanoic acid (PFHxA)	4.68	0.243	"	4.87		96.1	50-130				
Perfluoroheptanoic acid (PFHpA)	5.09	0.243	"	4.87		105	50-130				
Perfluorohexanesulfonic acid (PFHxS)	4.38	0.243	"	4.44		98.6	50-130				
Perfluorooctanoic acid (PFOA)	4.47	0.243	"	4.87		91.7	50-130				
Perfluorooctanesulfonic acid (PFOS)	4.38	0.243	"	4.51		97.1	50-130				
Perfluorononanoic acid (PFNA)	4.15	0.243	"	4.87		85.1	50-130				
Perfluorodecanoic acid (PFDA)	5.21	0.243	"	4.87		107	50-130				
Perfluoroundecanoic acid (PFUnA)	4.62	0.243	"	4.87		94.9	50-130				
Perfluorododecanoic acid (PFDoA)	4.59	0.243	"	4.87		94.2	50-130				
Perfluorotridecanoic acid (PFTriDA)	4.36	0.243	"	4.87		89.5	50-130				
Perfluorotetradecanoic acid (PFTA)	4.88	0.243	"	4.87		100	50-130				
N-MeFOSAA	4.24	0.243	"	4.87		87.2	50-130				
N-EtFOSAA	4.82	0.243	"	4.87		99.0	50-130				
Perfluoropentanoic acid (PFPeA)	4.34	0.243	"	4.87		89.2	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	4.70	0.243	"	4.87		96.6	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.93	0.243	"	4.63		84.9	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	3.79	0.243	"	4.70		80.6	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	8.14	0.243	"	4.63		176	50-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	11.3	0.243	"	4.67		242	50-200	High Bias			
Perfluoro-n-butanoic acid (PFBA)	4.64	0.243	"	4.87		95.3	50-130				
Surrogate: M3PFBS	4.35		"	4.52		96.1	25-150				
Surrogate: M5PFHxA	5.05		"	4.87		104	25-150				
Surrogate: M4PFHpA	3.95		"	4.87		81.2	25-150				
Surrogate: M3PFHxS	3.60		"	4.61		78.1	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.77		"	4.87		97.9	25-150				
Surrogate: M6PFDA	4.04		"	4.87		82.9	25-150				
Surrogate: M7PFUdA	3.90		"	4.87		80.2	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	4.81		"	4.87		98.7	25-150				
Surrogate: M2PFTeDA	3.37		"	4.87		69.3	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	5.84		"	4.87		120	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	4.66		"	4.66		100	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.58		"	4.87		114	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.25		"	4.87		66.8	10-150				
Surrogate: d3-N-MeFOSAA	3.72		"	4.87		76.5	25-150				
Surrogate: d5-N-EtFOSAA	3.57		"	4.87		73.3	25-150				
Surrogate: M2-6:2 FTS	3.75		"	4.62		81.2	25-200				
Surrogate: M2-8:2 FTS	4.07		"	4.66		87.3	25-200				
Surrogate: M9PFNA	5.40		"	4.87		111	25-150				



Polychlorinated Biphenyls by GC/ECD - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11539 - EPA 3550C

Blank (BG11539-BLK2)		Blank		Prepared: 07/28/2021 Analyzed: 07/29/2021							
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0402		"	0.0664		60.5	30-120				
<i>Surrogate: Decachlorobiphenyl</i>	0.0312		"	0.0664		47.0	30-120				

LCS (BG11539-BS2)		LCS		Prepared: 07/28/2021 Analyzed: 07/29/2021							
Aroclor 1016	0.305	0.0166	mg/kg wet	0.332		91.9	40-130				
Aroclor 1260	0.262	0.0166	"	0.332		79.0	40-130				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0502		"	0.0664		75.5	30-120				
<i>Surrogate: Decachlorobiphenyl</i>	0.0346		"	0.0664		52.0	30-120				

Batch Y1G2843 - BG11539

Aroclor Reference (Y1G2843- Aroclor Reference)		Prepared & Analyzed: 07/28/2021									
<i>Surrogate: Tetrachloro-m-xylene</i>	0.181		ug/mL	0.200		90.5					
<i>Surrogate: Decachlorobiphenyl</i>	0.170		"	0.200		85.0					

Batch Y1G2937 - BG11539

Aroclor Reference (Y1G2937- Aroclor Reference)		Prepared & Analyzed: 07/29/2021									
<i>Surrogate: Tetrachloro-m-xylene</i>	0.177		ug/mL	0.200		88.5					
<i>Surrogate: Decachlorobiphenyl</i>	0.179		"	0.200		89.5					



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11650 - EPA 3050B

Blank (BG11650-BLK1)	Blank	Prepared: 07/29/2021 Analyzed: 07/30/2021									
Aluminum	ND	5.00	mg/kg wet								
Antimony	ND	2.50	"								
Arsenic	ND	1.50	"								
Barium	ND	2.50	"								
Beryllium	ND	0.050	"								
Cadmium	ND	0.300	"								
Calcium	7.12	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.400	"								
Copper	ND	2.00	"								
Iron	ND	25.0	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	1.00	"								
Potassium	5.43	5.00	"								
Selenium	ND	2.50	"								
Silver	ND	0.500	"								
Sodium	ND	50.0	"								
Thallium	ND	2.50	"								
Vanadium	ND	1.00	"								
Zinc	ND	2.50	"								

Duplicate (BG11650-DUP1)	Duplicate	*Source sample: 21G1253-02 (414_EP08_8.5) Prepared: 07/29/2021 Analyzed: 07/30/2021									
Aluminum	8840	5.41	mg/kg dry		8710				1.53	35	
Antimony	ND	2.70	"		ND					35	
Arsenic	1.89	1.62	"		ND					35	
Barium	44.2	2.70	"		43.0			2.70		35	
Beryllium	ND	0.054	"		ND					35	
Cadmium	ND	0.325	"		ND					35	
Calcium	36100	5.41	"		34000			6.05		35	
Chromium	16.4	0.541	"		13.6			18.6		35	
Cobalt	7.55	0.433	"		7.27			3.75		35	
Copper	18.2	2.16	"		17.4			4.28		35	
Iron	14400	27.0	"		14100			2.39		35	
Lead	11.3	0.541	"		10.5			7.58		35	
Magnesium	20300	5.41	"		21300			4.53		35	
Manganese	325	0.541	"		331			1.77		35	
Nickel	13.5	1.08	"		14.2			5.51		35	
Potassium	1210	5.41	"		1150			4.61		35	
Selenium	4.67	2.70	"		3.66			24.2		35	
Silver	ND	0.541	"		ND					35	
Sodium	104	54.1	"		120			14.0		35	
Thallium	ND	2.70	"		ND					35	
Vanadium	18.5	1.08	"		18.3			1.27		35	
Zinc	47.2	2.70	"		41.1			13.7		35	



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11650 - EPA 3050B

Matrix Spike (BG11650-MS1)	Matrix Spike	*Source sample: 21G1253-02 (414_EP08_8.5)					Prepared: 07/29/2021 Analyzed: 07/30/2021					
Aluminum	9520	5.41	mg/kg dry	216	8710	378	75-125	High Bias				
Antimony	4.81	2.70	"	27.0	ND	17.8	75-125	Low Bias				
Arsenic	210	1.62	"	216	ND	96.9	75-125					
Barium	249	2.70	"	216	43.0	95.4	75-125					
Beryllium	4.00	0.054	"	5.41	ND	73.9	75-125	Low Bias				
Cadmium	5.22	0.325	"	5.41	ND	96.5	75-125					
Calcium	37200	5.41	"	108	34000	NR	75-125	High Bias				
Chromium	33.2	0.541	"	21.6	13.6	90.5	75-125					
Cobalt	58.6	0.433	"	54.1	7.27	94.8	75-125					
Copper	48.7	2.16	"	27.0	17.4	116	75-125					
Iron	13800	27.0	"	108	14100	NR	75-125	Low Bias				
Lead	62.5	0.541	"	54.1	10.5	96.1	75-125					
Magnesium	24500	5.41	"	108	21300	NR	75-125	High Bias				
Manganese	388	0.541	"	54.1	331	107	75-125					
Nickel	67.6	1.08	"	54.1	14.2	98.6	75-125					
Potassium	1220	5.41	"	108	1150	64.8	75-125	Low Bias				
Selenium	188	2.70	"	216	3.66	85.4	75-125					
Silver	2.87	0.541	"	54.1	ND	53.1	75-125	Low Bias				
Sodium	221	54.1	"	108	120	94.2	75-125					
Thallium	203	2.70	"	216	ND	94.0	75-125					
Vanadium	69.3	1.08	"	54.1	18.3	94.4	75-125					
Zinc	85.9	2.70	"	54.1	41.1	82.7	75-125					

Post Spike (BG11650-PS1)	Post Spike	*Source sample: 21G1253-02 (414_EP08_8.5)					Prepared: 07/29/2021 Analyzed: 07/30/2021					
Aluminum	81.0		ug/mL	2.00	80.5	27.8	75-125	Low Bias				
Antimony	0.297		"	0.250	-0.012	119	75-125					
Arsenic	2.21		"	2.00	0.012	110	75-125					
Barium	2.57		"	2.00	0.398	108	75-125					
Beryllium	0.043		"	0.0500	-0.011	86.3	75-125					
Cadmium	0.055		"	0.0500	0.002	106	75-125					
Calcium	304		"	1.00	314	NR	75-125	Low Bias				
Chromium	0.330		"	0.200	0.125	102	75-125					
Cobalt	0.610		"	0.500	0.067	108	75-125					
Copper	0.445		"	0.250	0.161	114	75-125					
Iron	128		"	1.00	130	NR	75-125	Low Bias				
Lead	0.652		"	0.500	0.097	111	75-125					
Magnesium	193		"	1.00	197	NR	75-125	Low Bias				
Manganese	3.53		"	0.500	3.06	94.9	75-125					
Nickel	0.698		"	0.500	0.131	113	75-125					
Potassium	11.6		"	1.00	10.7	96.3	75-125					
Selenium	1.99		"	2.00	0.034	97.9	75-125					
Silver	0.005		"	0.0500	-0.028	11.0	75-125	Low Bias				
Sodium	2.03		"	1.00	1.11	92.6	75-125					
Thallium	2.16		"	2.00	-0.051	108	75-125					
Vanadium	0.703		"	0.500	0.169	107	75-125					
Zinc	0.892		"	0.500	0.380	102	75-125					



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11650 - EPA 3050B

Reference (BG11650-SRM1) Reference Prepared: 07/29/2021 Analyzed: 07/30/2021

Aluminum	8120	5.00	mg/kg wet	8190		99.2	50.5-150.1				
Antimony	83.0	2.50	"	110		75.4	19-251.7				
Arsenic	162	1.50	"	162		100	70.1-129.8				
Barium	143	2.50	"	138		104	75-125				
Beryllium	184	0.050	"	157		117	75-125.2				
Cadmium	157	0.300	"	135		116	74.8-125.2				
Calcium	4960	5.00	"	4790		104	72.7-127.5				
Chromium	126	0.500	"	117		108	70.1-129.9				
Cobalt	108	0.400	"	92.6		117	75-125				
Copper	153	2.00	"	143		107	75.3-125.3				
Iron	12100	25.0	"	15100		80.3	35.8-164.6				
Lead	71.3	0.500	"	77.6		91.9	70-130				
Magnesium	2280	5.00	"	2320		98.2	61.7-137.8				
Manganese	332	0.500	"	319		104	78.1-122				
Nickel	99.4	1.00	"	79.9		124	70.1-130.1				
Potassium	2040	5.00	"	2050		99.3	59.1-140.9				
Selenium	153	2.50	"	172		89.0	55.7-144.5				
Silver	23.4	0.500	"	24.7		94.9	69.2-130.8				
Sodium	128	50.0	"	137		93.3	36.1-163.3				
Thallium	90.7	2.50	"	88.0		103	65.3-146.8				
Vanadium	97.6	1.00	"	99.9		97.7	67-133.1				
Zinc	313	2.50	"	312		100	69.9-130.1				



Mercury by EPA 7000/200 Series Methods - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BG11669 - EPA 7473 soil												
Blank (BG11669-BLK1)	Blank								Prepared & Analyzed: 07/29/2021			
Mercury	ND	0.0300	mg/kg wet									
Duplicate (BG11669-DUP1)	Duplicate	*Source sample: 21G1253-02 (414_EP08_8.5)								Prepared & Analyzed: 07/29/2021		
Mercury	ND	0.0325	mg/kg dry		ND						35	
Matrix Spike (BG11669-MS1)	Matrix Spike	*Source sample: 21G1253-02 (414_EP08_8.5)								Prepared & Analyzed: 07/29/2021		
Mercury	0.438		mg/kg	0.500	0.0165	84.3	75-125					
Reference (BG11669-SRM1)	Reference								Prepared & Analyzed: 07/29/2021			
Mercury	23.056		mg/kg	27.2		84.8	59.9-140.1					



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG11559 - EPA SW846-3060											
Blank (BG11559-BLK1)	Blank								Prepared & Analyzed: 07/28/2021		
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Duplicate (BG11559-DUP1)	Duplicate								Prepared & Analyzed: 07/28/2021		
Chromium, Hexavalent	ND	0.541	mg/kg dry		ND					35	
Matrix Spike (BG11559-MS1)	Matrix Spike								Prepared & Analyzed: 07/28/2021		
Chromium, Hexavalent	20.2	0.541	mg/kg dry	21.6	ND	93.4	75-125				
Reference (BG11559-SRM1)	Reference								Prepared & Analyzed: 07/28/2021		
Chromium, Hexavalent	102		mg/L	109		94.0	30-169.7				
Batch BG11595 - Analysis Preparation Soil											
Blank (BG11595-BLK1)	Blank								Prepared & Analyzed: 07/29/2021		
Cyanide, total	ND	0.500	mg/kg wet								
Duplicate (BG11595-DUP1)	Duplicate								Prepared & Analyzed: 07/29/2021		
Cyanide, total	ND	0.528	mg/kg dry		ND					15	
Matrix Spike (BG11595-MS1)	Matrix Spike								Prepared & Analyzed: 07/29/2021		
Cyanide, total	8.33	0.528	mg/kg dry	10.6	ND	78.8	79.6-107	Low Bias			
Reference (BG11595-SRM1)	Reference								Prepared & Analyzed: 07/29/2021		
Cyanide, total	114		ug/mL	91.9		124	42.22-159.96				



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11566 - % Solids Prep

Duplicate (BG11566-DUP1)	Duplicate	*Source sample: 21G1253-02 (414 EP08 8.5)						Prepared: 07/28/2021 Analyzed: 07/29/2021			
% Solids	92.4	0.100	%		92.4				0.0413	20	



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
21G1253-01	414_EP03_9.8	40mL Vial with Stir Bar-Cool 4° C
21G1253-02	414_EP08_8.5	40mL Vial with Stir Bar-Cool 4° C



Sample and Data Qualifiers Relating to This Work Order

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
PF-LCS-H	The LCS recovery was slightly above acceptable limits for the qualified compound. However, sample results are not biased high because results are corrected for isotope recovery.
M-SRD1	The serial dilution for this element was outside control limits.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-MBLk	Analyte was detected in the batch method blank above the Reporting Limit.
M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.
M-CRL	The RL check for this element recovered outside of control limits.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.



High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



YORK

ANALYTICAL LABORATORIES INC

Field Chain-of-Custody Record

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615
132-02 89th Ave Queens, NY 11418
clientservices@yorklab.com www.yorklab.com 800-306-YORK 800-306-8675

Report To:
Company: Lanjan
Address: 21 Penn Plaza, 300 W31st Street, 18th floor, New York, NY, 10001
Phone: 212-470-5100
Contact: Kimberly Seaman
E-mail: kseaman@lanjan.com

Invoice To:
Company: Lanjan
Address: 21 Penn Plaza, 300 W31st Street, 18th floor, New York, NY, 10001
Phone: 212-470-5100
Contact: Kimberly Seaman
E-mail: kseaman@lanjan.com

YOUR Project Number
170A88401

YOUR Project Name
A14/444 Gerard Ave

YOUR PO#:

YORK Project No.
2161253

Page 1 of 1

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Ali Reich
Ali Reich

Samples Collected by: (print AND sign your name)

Matrix Codes	Samples From	Report / EDD Type (circle selections)	YORK Reg. Comp.
<input checked="" type="checkbox"/> S - soil / solid	New York	Summary Report	Compared to the following Regulation(s): (please list in)
<input type="checkbox"/> GW - groundwater	New Jersey	QA Report	Standard Excel EDD
<input type="checkbox"/> DW - drinking water	Connecticut	NY ASP A Package	CT RCP DQADUE EQUIS (Standard)
<input type="checkbox"/> WW - wastewater	Pennsylvania	NY ASP B Package	NYSDEC EQUIS
<input type="checkbox"/> O - Oil / Other	Other:	Deliverables	NJDEP Reduced
		NJDXQP	NJDEP SRP HazSite
		Other:	

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
<u>A14-EP03-9.8</u>	<u>S</u>	<u>07/27/21 12:30</u>	<u>TCL/Part 375 VOCs and SVOCs, PCBs,</u>	
<u>A14-EP08-8.5</u>	<u>S</u>	<u>07/27/21 12:20</u>	<u>pesticides, metals including cyanide,</u>	
			<u>hexavalent and trivalent chromium,</u>	
			<u>PFAS, 1,4-dioxane *</u>	
			<u>* Run for all soil samples</u>	

Comments: please also email LESmail@lanjan.com and datamanagement@lanjan.com

Lab/Time	Date/Time	Lab/Time	Date/Time
<u>Ali Reich</u>	<u>07/27/21 15:27</u>	<u>Ali Reich</u>	<u>07/27/21 15:27</u>
<u>Ali Reich</u>	<u>07/27/21 20:00</u>	<u>Ali Reich</u>	<u>07/27/21 20:00</u>

Temperature

7/27/21 20:00

2161253

Page 60 of 60



Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

Attention: Kimberly Semon

Report Date: 07/27/2021

Client Project ID: 170488401

York Project (SDG) No.: 21G1096



CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037

New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

Report Date: 07/27/2021
Client Project ID: 170488401
York Project (SDG) No.: 21G1096

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Kimberly Semon

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 22, 2021 and listed below. The project was identified as your project: **170488401**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21G1096-01	414_EP01_8.5	Soil	07/22/2021	07/22/2021
21G1096-02	414_EP06_8.5	Soil	07/22/2021	07/22/2021
21G1096-03	414_EP02_8.5	Soil	07/22/2021	07/22/2021
21G1096-04	414_EP07_8.5	Soil	07/22/2021	07/22/2021
21G1096-05	SO_DUP01_072221	Soil	07/22/2021	07/22/2021
21G1096-06	SO_FB01_072221	Water	07/22/2021	07/22/2021
21G1096-07	TB01_072221	Water	07/22/2021	07/22/2021

General Notes for York Project (SDG) No.: 21G1096

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By



Cassie L. Mosher
Laboratory Manager

Date: 07/27/2021





Sample Information

Client Sample ID: 414_EP01_8.5

York Sample ID: 21G1096-01

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 10:55 am	<u>Date Received</u> 07/22/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/23/2021 06:47	07/23/2021 22:57	KHA
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/23/2021 06:47	07/23/2021 22:57	KHA
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.045	0.091	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
78-93-3	2-Butanone	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA



Sample Information

Client Sample ID: 414_EP01_8.5

York Sample ID: 21G1096-01

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 10:55 am	<u>Date Received</u> 07/22/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
67-64-1	Acetone	0.012		mg/kg dry	0.0045	0.0091	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
107-02-8	Acrolein	ND		mg/kg dry	0.0045	0.0091	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
71-43-2	Benzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
75-25-2	Bromoform	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
74-83-9	Bromomethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
75-00-3	Chloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
67-66-3	Chloroform	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
74-87-3	Chloromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
110-82-7	Cyclohexane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
74-95-3	Dibromomethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA



Sample Information

Client Sample ID: 414_EP01_8.5

York Sample ID: 21G1096-01

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 10:55 am	<u>Date Received</u> 07/22/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
79-20-9	Methyl acetate	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
75-09-2	Methylene chloride	ND		mg/kg dry	0.0045	0.0091	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
95-47-6	o-Xylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0045	0.0091	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
100-42-5	Styrene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
108-88-3	Toluene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA



Sample Information

Client Sample ID: 414_EP01_8.5

York Sample ID: 21G1096-01

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 10:55 am	<u>Date Received</u> 07/22/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 22:57	KHA
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0068	0.014	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/23/2021 06:47	07/23/2021 22:57	KHA
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	118 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	98.5 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	102 %			76-130						

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH



Sample Information

Client Sample ID: 414_EP01_8.5

York Sample ID: 21G1096-01

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 10:55 am	<u>Date Received</u> 07/22/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
62-53-3	Aniline	ND		mg/kg dry	0.178	0.356	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
92-87-5	Benzidine	ND		mg/kg dry	0.178	0.356	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH



Sample Information

Client Sample ID: 414_EP01_8.5

York Sample ID: 21G1096-01

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 10:55 am	<u>Date Received</u> 07/22/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH



Sample Information

Client Sample ID: 414_EP01_8.5

York Sample ID: 21G1096-01

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 10:55 am	<u>Date Received</u> 07/22/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
108-95-2	Phenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH
110-86-1	Pyridine	ND		mg/kg dry	0.178	0.356	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 15:40	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	55.1 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	54.5 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	66.3 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	70.8 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	68.5 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	77.8 %	24-116



Sample Information

Client Sample ID: 414_EP01_8.5

York Sample ID: 21G1096-01

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 10:55 am	<u>Date Received</u> 07/22/2021
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Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM Certifications: NELAC-NY10854	07/23/2021 14:12	07/26/2021 17:54	KH
Surrogate Recoveries		Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	54.0 %	39-127.5							

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 03:45	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 03:45	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 03:45	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 03:45	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 03:45	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 03:45	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 03:45	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 03:45	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 03:45	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 03:45	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 03:45	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 03:45	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 03:45	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 03:45	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 03:45	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 03:45	WL



Sample Information

Client Sample ID: 414_EP01_8.5

York Sample ID: 21G1096-01

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 10:55 am	<u>Date Received</u> 07/22/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 03:45	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 03:45	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 03:45	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 03:45	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 03:45	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	81.6 %	25-150
Surrogate: M5PFHxA	85.5 %	25-150
Surrogate: M4PFHpA	85.7 %	25-150
Surrogate: M3PFHxS	74.7 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid	81.7 %	25-150
Surrogate: M6PFDA	79.2 %	25-150
Surrogate: M7PFUDA	67.9 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	86.8 %	25-150
Surrogate: M2PFTeDA	52.3 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid	95.7 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfon	65.9 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid	95.5 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfon	58.1 %	10-150
Surrogate: d3-N-MeFOSAA	68.4 %	25-150
Surrogate: d5-N-EtFOSAA	81.2 %	25-150
Surrogate: M2-6:2 FTS	156 %	25-200
Surrogate: M2-8:2 FTS	197 %	25-200
Surrogate: M9PFNA	82.3 %	25-150

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:19	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:19	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:19	CM



Sample Information

Client Sample ID: 414_EP01_8.5

York Sample ID: 21G1096-01

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 10:55 am	<u>Date Received</u> 07/22/2021
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:19	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:19	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	07/23/2021 12:09	07/26/2021 23:19	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:19	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:19	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:19	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:19	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	07/23/2021 12:09	07/26/2021 23:19	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:19	CM
72-20-8	Endrin	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:19	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:19	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:19	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:19	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	07/23/2021 12:09	07/26/2021 23:19	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:19	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:19	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:19	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:19	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0353	5	EPA 8081B Certifications:	07/23/2021 12:09	07/26/2021 23:19	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	43.5 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	69.4 %	30-150							



Sample Information

Client Sample ID: 414_EP01_8.5

York Sample ID: 21G1096-01

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 10:55 am	<u>Date Received</u> 07/22/2021
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 19:40	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 19:40	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 19:40	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 19:40	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 19:40	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 19:40	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 19:40	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications:	07/23/2021 12:09	07/26/2021 19:40	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	70.5 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	37.0 %	30-120							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	10400	B	mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM
7440-36-0	Antimony	ND		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM
7440-39-3	Barium	41.4		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.322	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM
7440-70-2	Calcium	2400	B	mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM
7440-47-3	Chromium	13.4		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM
7440-48-4	Cobalt	5.96		mg/kg dry	0.430	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM



Sample Information

Client Sample ID: 414_EP01_8.5

York Sample ID: 21G1096-01

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 10:55 am	<u>Date Received</u> 07/22/2021
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	7.83		mg/kg dry	2.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM
7439-89-6	Iron	13700		mg/kg dry	26.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM
7439-92-1	Lead	8.46		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM
7439-95-4	Magnesium	3430		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM
7439-96-5	Manganese	324		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM
7440-02-0	Nickel	12.8		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM
7440-09-7	Potassium	1230	B	mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM
7782-49-2	Selenium	ND		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM
7440-22-4	Silver	ND		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM
7440-23-5	Sodium	86.5		mg/kg dry	53.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM
7440-28-0	Thallium	ND		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM
7440-62-2	Vanadium	15.5		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM
7440-66-6	Zinc	37.9		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:48	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0322	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	07/23/2021 15:58	07/23/2021 22:32	BR

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.537	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	07/23/2021 14:18	07/23/2021 20:23	ZTS

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: 414_EP01_8.5

York Sample ID: 21G1096-01

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 10:55 am	<u>Date Received</u> 07/22/2021
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	13.4		mg/kg	0.500	1	Calculation	07/26/2021 13:08	07/26/2021 17:21	PAM
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.537	1	EPA 9014/9010C	07/26/2021 08:41	07/26/2021 13:52	JAG
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	93.1		%	0.100	1	SM 2540G	07/24/2021 11:29	07/26/2021 09:05	TAJ
Certifications: CTDOH										



Sample Information

Client Sample ID: 414_EP06_8.5

York Sample ID: 21G1096-02

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:00 am	<u>Date Received</u> 07/22/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/23/2021 06:47	07/23/2021 23:23	KHA
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/23/2021 06:47	07/23/2021 23:23	KHA
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.049	0.097	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
78-93-3	2-Butanone	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA



Sample Information

Client Sample ID: 414_EP06_8.5

York Sample ID: 21G1096-02

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:00 am	<u>Date Received</u> 07/22/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
67-64-1	Acetone	0.0074	J	mg/kg dry	0.0049	0.0097	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
107-02-8	Acrolein	ND		mg/kg dry	0.0049	0.0097	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
71-43-2	Benzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
75-25-2	Bromoform	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
74-83-9	Bromomethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
75-00-3	Chloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
67-66-3	Chloroform	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
74-87-3	Chloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
110-82-7	Cyclohexane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
74-95-3	Dibromomethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA



Sample Information

Client Sample ID: 414_EP06_8.5

York Sample ID: 21G1096-02

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:00 am	<u>Date Received</u> 07/22/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
79-20-9	Methyl acetate	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
75-09-2	Methylene chloride	ND		mg/kg dry	0.0049	0.0097	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
95-47-6	o-Xylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0049	0.0097	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
100-42-5	Styrene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
108-88-3	Toluene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA



Sample Information

Client Sample ID: 414_EP06_8.5

York Sample ID: 21G1096-02

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:00 am	<u>Date Received</u> 07/22/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:23	KHA
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0073	0.015	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/23/2021 06:47	07/23/2021 23:23	KHA
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	119 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	99.3 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	102 %			76-130						

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0866	0.173	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0866	0.173	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0866	0.173	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH



Sample Information

Client Sample ID: 414_EP06_8.5

York Sample ID: 21G1096-02

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:00 am	<u>Date Received</u> 07/22/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0866	0.173	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0866	0.173	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0866	0.173	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0866	0.173	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0866	0.173	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
62-53-3	Aniline	ND		mg/kg dry	0.173	0.347	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
92-87-5	Benzidine	ND		mg/kg dry	0.173	0.347	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH



Sample Information

Client Sample ID: 414_EP06_8.5

York Sample ID: 21G1096-02

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:00 am	<u>Date Received</u> 07/22/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0866	0.173	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0866	0.173	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH



Sample Information

Client Sample ID: 414_EP06_8.5

York Sample ID: 21G1096-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21G1096

170488401

Soil

July 22, 2021 11:00 am

07/22/2021

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
108-95-2	Phenol	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0434	0.0866	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH
110-86-1	Pyridine	ND		mg/kg dry	0.173	0.347	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:11	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: SURR: 2-Fluorophenol	60.2 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	49.2 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	58.4 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	62.5 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	69.8 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	73.0 %	24-116



Sample Information

Client Sample ID: 414_EP06_8.5

York Sample ID: 21G1096-02

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:00 am	<u>Date Received</u> 07/22/2021
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Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.6	1	EPA 8270D SIM Certifications: NELAC-NY10854	07/23/2021 14:12	07/26/2021 18:11	KH
Surrogate Recoveries		Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	54.0 %	39-127.5							

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:29	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:29	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:29	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:29	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:29	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:29	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:29	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:29	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:29	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:29	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:29	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:29	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:29	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:29	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:29	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:29	WL



Sample Information

Client Sample ID: 414_EP06_8.5

York Sample ID: 21G1096-02

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:00 am	<u>Date Received</u> 07/22/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:29	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:29	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:29	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:29	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.262	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:29	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	84.0 %	25-150
Surrogate: M5PFHxA	86.5 %	25-150
Surrogate: M4PFHpA	81.2 %	25-150
Surrogate: M3PFHxS	75.9 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid	83.1 %	25-150
Surrogate: M6PFDA	75.8 %	25-150
Surrogate: M7PFUdA	71.0 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	96.6 %	25-150
Surrogate: M2PFTeDA	67.2 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid	95.6 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfon	71.4 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid	95.4 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfon	57.9 %	10-150
Surrogate: d3-N-MeFOSAA	73.5 %	25-150
Surrogate: d5-N-EtFOSAA	90.2 %	25-150
Surrogate: M2-6:2 FTS	111 %	25-200
Surrogate: M2-8:2 FTS	129 %	25-200
Surrogate: M9PFNA	88.2 %	25-150

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:36	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:36	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:36	CM



Sample Information

Client Sample ID: 414_EP06_8.5

York Sample ID: 21G1096-02

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:00 am	<u>Date Received</u> 07/22/2021
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:36	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:36	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	07/23/2021 12:09	07/26/2021 23:36	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:36	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:36	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:36	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:36	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	07/23/2021 12:09	07/26/2021 23:36	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:36	CM
72-20-8	Endrin	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:36	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:36	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:36	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:36	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	07/23/2021 12:09	07/26/2021 23:36	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:36	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:36	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:36	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:36	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0351	5	EPA 8081B Certifications:	07/23/2021 12:09	07/26/2021 23:36	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	50.8 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	71.3 %	30-150							



Sample Information

Client Sample ID: 414_EP06_8.5

York Sample ID: 21G1096-02

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:00 am	<u>Date Received</u> 07/22/2021
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 19:54	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 19:54	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 19:54	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 19:54	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 19:54	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 19:54	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 19:54	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications:	07/23/2021 12:09	07/26/2021 19:54	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	73.5 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	41.0 %	30-120							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	6650	B	mg/kg dry	5.33	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM
7440-36-0	Antimony	ND		mg/kg dry	2.66	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM
7440-39-3	Barium	40.2		mg/kg dry	2.66	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.053	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.320	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM
7440-70-2	Calcium	14300	B	mg/kg dry	5.33	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM
7440-47-3	Chromium	10.2		mg/kg dry	0.533	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM
7440-48-4	Cobalt	4.67		mg/kg dry	0.426	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM



Sample Information

Client Sample ID: 414_EP06_8.5

York Sample ID: 21G1096-02

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:00 am	<u>Date Received</u> 07/22/2021
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	10.5		mg/kg dry	2.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM
7439-89-6	Iron	9870		mg/kg dry	26.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM
7439-92-1	Lead	7.68		mg/kg dry	0.533	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM
7439-95-4	Magnesium	6940		mg/kg dry	5.33	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM
7439-96-5	Manganese	301		mg/kg dry	0.533	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM
7440-02-0	Nickel	8.62		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM
7440-09-7	Potassium	1160	B	mg/kg dry	5.33	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM
7782-49-2	Selenium	ND		mg/kg dry	2.66	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM
7440-22-4	Silver	ND		mg/kg dry	0.533	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM
7440-23-5	Sodium	74.5		mg/kg dry	53.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM
7440-28-0	Thallium	ND		mg/kg dry	2.66	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM
7440-62-2	Vanadium	12.3		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM
7440-66-6	Zinc	24.2		mg/kg dry	2.66	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:51	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0320	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	07/23/2021 15:58	07/23/2021 22:41	BR

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.533	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	07/26/2021 08:12	07/26/2021 15:45	OT

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: 414_EP06_8.5

York Sample ID: 21G1096-02

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:00 am	<u>Date Received</u> 07/22/2021
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	10.2		mg/kg	0.500	1	Calculation	07/26/2021 13:08	07/26/2021 17:21	PAM
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.533	1	EPA 9014/9010C	07/26/2021 08:41	07/26/2021 13:52	JAG
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	93.8		%	0.100	1	SM 2540G	07/24/2021 11:29	07/26/2021 09:05	TAJ
Certifications: CTDOH										



Sample Information

Client Sample ID: 414_EP02_8.5

York Sample ID: 21G1096-03

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:05 am	<u>Date Received</u> 07/22/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/23/2021 06:47	07/23/2021 23:49	KHA
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/23/2021 06:47	07/23/2021 23:49	KHA
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.048	0.096	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
78-93-3	2-Butanone	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA



Sample Information

Client Sample ID: 414_EP02_8.5

York Sample ID: 21G1096-03

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:05 am	<u>Date Received</u> 07/22/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
67-64-1	Acetone	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
107-02-8	Acrolein	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
71-43-2	Benzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
75-25-2	Bromoform	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
74-83-9	Bromomethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
75-00-3	Chloroethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
67-66-3	Chloroform	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
74-87-3	Chloromethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
110-82-7	Cyclohexane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
74-95-3	Dibromomethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA



Sample Information

Client Sample ID: 414_EP02_8.5

York Sample ID: 21G1096-03

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:05 am	<u>Date Received</u> 07/22/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
79-20-9	Methyl acetate	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
75-09-2	Methylene chloride	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
95-47-6	o-Xylene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
100-42-5	Styrene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
108-88-3	Toluene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 23:49	KHA



Sample Information

Client Sample ID: 414_EP02_8.5

York Sample ID: 21G1096-03

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 21G1096, 170488401, Soil, July 22, 2021 11:05 am, 07/22/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for Vinyl Chloride, Xylenes, Total, and Surrogate Recoveries.

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various chlorophenols and biphenyls.



Sample Information

Client Sample ID: 414_EP02_8.5

York Sample ID: 21G1096-03

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:05 am	<u>Date Received</u> 07/22/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
62-53-3	Aniline	ND		mg/kg dry	0.177	0.354	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
92-87-5	Benzidine	ND		mg/kg dry	0.177	0.354	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH



Sample Information

Client Sample ID: 414_EP02_8.5

York Sample ID: 21G1096-03

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:05 am	<u>Date Received</u> 07/22/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH



Sample Information

Client Sample ID: 414_EP02_8.5

York Sample ID: 21G1096-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21G1096

170488401

Soil

July 22, 2021 11:05 am

07/22/2021

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
108-95-2	Phenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH
110-86-1	Pyridine	ND		mg/kg dry	0.177	0.354	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 16:43	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	67.3 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	55.8 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	67.4 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	70.9 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	79.9 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	76.3 %	24-116



Sample Information

Client Sample ID: 414_EP02_8.5

York Sample ID: 21G1096-03

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:05 am	<u>Date Received</u> 07/22/2021
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Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.6	1	EPA 8270D SIM Certifications: NELAC-NY10854	07/23/2021 14:12	07/26/2021 18:28	KH
Surrogate Recoveries		Result			Acceptance Range					
17647-74-4	Surrogate: 1,4-Dioxane-d8	48.0 %			39-127.5					

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:52	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:52	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:52	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:52	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:52	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:52	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:52	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:52	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:52	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:52	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:52	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:52	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:52	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:52	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:52	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:52	WL



Sample Information

Client Sample ID: 414_EP02_8.5

York Sample ID: 21G1096-03

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:05 am	<u>Date Received</u> 07/22/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:52	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:52	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:52	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:52	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 04:52	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	90.7 %	25-150
Surrogate: M5PFHxA	94.0 %	25-150
Surrogate: M4PFHpA	91.2 %	25-150
Surrogate: M3PFHxS	79.4 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid	93.2 %	25-150
Surrogate: M6PFDA	104 %	25-150
Surrogate: M7PFUdA	88.0 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	102 %	25-150
Surrogate: M2PFTeDA	77.4 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid	101 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfon	94.8 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid	102 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfon	65.2 %	10-150
Surrogate: d3-N-MeFOSAA	82.9 %	25-150
Surrogate: d5-N-EtFOSAA	104 %	25-150
Surrogate: M2-6:2 FTS	128 %	25-200
Surrogate: M2-8:2 FTS	167 %	25-200
Surrogate: M9PFNA	102 %	25-150

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:53	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:53	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:53	CM



Sample Information

Client Sample ID: 414_EP02_8.5

York Sample ID: 21G1096-03

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:05 am	<u>Date Received</u> 07/22/2021
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:53	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:53	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	07/23/2021 12:09	07/26/2021 23:53	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:53	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:53	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:53	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:53	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	07/23/2021 12:09	07/26/2021 23:53	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:53	CM
72-20-8	Endrin	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:53	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:53	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:53	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:53	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	07/23/2021 12:09	07/26/2021 23:53	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:53	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:53	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:53	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 23:53	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0360	5	EPA 8081B Certifications:	07/23/2021 12:09	07/26/2021 23:53	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	Surrogate: Decachlorobiphenyl	51.3 %	30-150
877-09-8	Surrogate: Tetrachloro-m-xylene	65.0 %	30-150



Sample Information

Client Sample ID: 414_EP02_8.5

York Sample ID: 21G1096-03

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:05 am	<u>Date Received</u> 07/22/2021
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 20:07	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 20:07	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 20:07	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 20:07	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 20:07	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 20:07	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 20:07	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications:	07/23/2021 12:09	07/26/2021 20:07	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	68.5 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	43.0 %	30-120							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	8700	B	mg/kg dry	5.47	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM
7440-36-0	Antimony	ND		mg/kg dry	2.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM
7440-39-3	Barium	39.1		mg/kg dry	2.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.055	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.328	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM
7440-70-2	Calcium	98800	B	mg/kg dry	5.47	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM
7440-47-3	Chromium	14.4		mg/kg dry	0.547	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM
7440-48-4	Cobalt	8.21		mg/kg dry	0.437	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM



Sample Information

Client Sample ID: 414_EP02_8.5

York Sample ID: 21G1096-03

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:05 am	<u>Date Received</u> 07/22/2021
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	20.9		mg/kg dry	2.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM
7439-89-6	Iron	11500		mg/kg dry	27.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM
7439-92-1	Lead	2.52		mg/kg dry	0.547	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM
7439-95-4	Magnesium	57300		mg/kg dry	5.47	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM
7439-96-5	Manganese	282		mg/kg dry	0.547	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM
7440-02-0	Nickel	13.0		mg/kg dry	1.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM
7440-09-7	Potassium	1540	B	mg/kg dry	5.47	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM
7782-49-2	Selenium	14.5		mg/kg dry	2.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM
7440-22-4	Silver	ND		mg/kg dry	0.547	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM
7440-23-5	Sodium	270		mg/kg dry	54.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM
7440-28-0	Thallium	ND		mg/kg dry	2.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM
7440-62-2	Vanadium	21.0		mg/kg dry	1.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM
7440-66-6	Zinc	28.8		mg/kg dry	2.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:54	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0328	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	07/23/2021 15:58	07/23/2021 22:50	BR

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.547	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	07/26/2021 08:12	07/26/2021 15:45	OT

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: 414_EP02_8.5

York Sample ID: 21G1096-03

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:05 am	<u>Date Received</u> 07/22/2021
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	14.4		mg/kg	0.500	1	Calculation	07/26/2021 13:08	07/26/2021 17:21	PAM
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.547	1	EPA 9014/9010C	07/26/2021 08:41	07/26/2021 13:52	JAG
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	91.5		%	0.100	1	SM 2540G	07/24/2021 11:29	07/26/2021 09:05	TAJ
Certifications: CTDOH										



Sample Information

Client Sample ID: 414_EP07_8.5

York Sample ID: 21G1096-04

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:10 am	<u>Date Received</u> 07/22/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.044	0.088	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
78-93-3	2-Butanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ



Sample Information

Client Sample ID: 414_EP07_8.5

York Sample ID: 21G1096-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21G1096

170488401

Soil

July 22, 2021 11:10 am

07/22/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
67-64-1	Acetone	ND		mg/kg dry	0.0044	0.0088	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
107-02-8	Acrolein	ND		mg/kg dry	0.0044	0.0088	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
71-43-2	Benzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
75-25-2	Bromoform	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
74-83-9	Bromomethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
75-00-3	Chloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
67-66-3	Chloroform	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
74-87-3	Chloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
110-82-7	Cyclohexane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
74-95-3	Dibromomethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ



Sample Information

Client Sample ID: 414_EP07_8.5

York Sample ID: 21G1096-04

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:10 am	<u>Date Received</u> 07/22/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
79-20-9	Methyl acetate	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
75-09-2	Methylene chloride	ND		mg/kg dry	0.0044	0.0088	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
95-47-6	o-Xylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0044	0.0088	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
100-42-5	Styrene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
108-88-3	Toluene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ



Sample Information

Client Sample ID: 414_EP07_8.5

York Sample ID: 21G1096-04

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:10 am	<u>Date Received</u> 07/22/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0066	0.013	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/23/2021 06:47	07/23/2021 21:34	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	96.6 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	101 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	93.0 %			76-130						

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH



Sample Information

Client Sample ID: 414_EP07_8.5

York Sample ID: 21G1096-04

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:10 am	<u>Date Received</u> 07/22/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
62-53-3	Aniline	ND		mg/kg dry	0.182	0.365	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
92-87-5	Benzidine	ND		mg/kg dry	0.182	0.365	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH



Sample Information

Client Sample ID: 414_EP07_8.5

York Sample ID: 21G1096-04

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:10 am	<u>Date Received</u> 07/22/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH



Sample Information

Client Sample ID: 414_EP07_8.5

York Sample ID: 21G1096-04

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:10 am	<u>Date Received</u> 07/22/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
108-95-2	Phenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH
110-86-1	Pyridine	ND		mg/kg dry	0.182	0.365	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:14	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	60.3 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	50.3 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	64.6 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	66.9 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	68.5 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	75.6 %	24-116



Sample Information

Client Sample ID: 414_EP07_8.5

York Sample ID: 21G1096-04

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:10 am	<u>Date Received</u> 07/22/2021
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Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM Certifications: NELAC-NY10854	07/23/2021 14:12	07/26/2021 12:28	KH
Surrogate Recoveries		Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	56.0 %	39-127.5							

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 05:14	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 05:14	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 05:14	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 05:14	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 05:14	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 05:14	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 05:14	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 05:14	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 05:14	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 05:14	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 05:14	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 05:14	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 05:14	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 05:14	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 05:14	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 05:14	WL



Sample Information

Client Sample ID: 414_EP07_8.5

York Sample ID: 21G1096-04

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:10 am	<u>Date Received</u> 07/22/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 05:14	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 05:14	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 05:14	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 05:14	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.257	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 05:14	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	80.8 %	25-150
Surrogate: M5PFHxA	87.2 %	25-150
Surrogate: M4PFHpA	81.3 %	25-150
Surrogate: M3PFHxS	73.4 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid	85.7 %	25-150
Surrogate: M6PFDA	94.7 %	25-150
Surrogate: M7PFUDA	73.2 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	92.6 %	25-150
Surrogate: M2PFTeDA	63.6 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid	97.4 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfon	75.5 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid	94.8 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfon	60.1 %	10-150
Surrogate: d3-N-MeFOSAA	76.0 %	25-150
Surrogate: d5-N-EtFOSAA	81.3 %	25-150
Surrogate: M2-6:2 FTS	152 %	25-200
Surrogate: M2-8:2 FTS	228 %	25-200
Surrogate: M9PFNA	98.4 %	25-150

PFsu-H
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PTel-VA
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:10	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:10	CM



Sample Information

Client Sample ID: 414_EP07_8.5

York Sample ID: 21G1096-04

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:10 am	<u>Date Received</u> 07/22/2021
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:10	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:10	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:10	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	07/23/2021 12:09	07/27/2021 00:10	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:10	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:10	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:10	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:10	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	07/23/2021 12:09	07/27/2021 00:10	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:10	CM
72-20-8	Endrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:10	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:10	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:10	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:10	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	07/23/2021 12:09	07/27/2021 00:10	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:10	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:10	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:10	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:10	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0356	5	EPA 8081B Certifications:	07/23/2021 12:09	07/27/2021 00:10	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	54.7 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	70.2 %	30-150							



Sample Information

Client Sample ID: 414_EP07_8.5

York Sample ID: 21G1096-04

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:10 am	<u>Date Received</u> 07/22/2021
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 20:21	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 20:21	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 20:21	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 20:21	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 20:21	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 20:21	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 20:21	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications:	07/23/2021 12:09	07/26/2021 20:21	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	72.5 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	43.5 %	30-120							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	11700	B	mg/kg dry	5.48	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM
7440-36-0	Antimony	ND		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM
7440-39-3	Barium	47.8		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.055	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.329	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM
7440-70-2	Calcium	64900	B	mg/kg dry	5.48	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM
7440-47-3	Chromium	21.9		mg/kg dry	0.548	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM



Sample Information

Client Sample ID: 414_EP07_8.5

York Sample ID: 21G1096-04

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:10 am	<u>Date Received</u> 07/22/2021
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-48-4	Cobalt	9.07		mg/kg dry	0.438	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM
7440-50-8	Copper	20.3		mg/kg dry	2.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM
7439-89-6	Iron	16400		mg/kg dry	27.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM
7439-92-1	Lead	3.68		mg/kg dry	0.548	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM
7439-95-4	Magnesium	43800		mg/kg dry	5.48	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM
7439-96-5	Manganese	339		mg/kg dry	0.548	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM
7440-02-0	Nickel	14.4		mg/kg dry	1.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM
7440-09-7	Potassium	1760	B	mg/kg dry	5.48	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM
7782-49-2	Selenium	7.40		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM
7440-22-4	Silver	ND		mg/kg dry	0.548	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM
7440-23-5	Sodium	233		mg/kg dry	54.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM
7440-28-0	Thallium	ND		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM
7440-62-2	Vanadium	29.7		mg/kg dry	1.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM
7440-66-6	Zinc	40.7		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 15:57	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0329	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	07/23/2021 15:58	07/23/2021 22:59	BR

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.548	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	07/26/2021 08:12	07/26/2021 15:45	OT



Sample Information

Client Sample ID: 414_EP07_8.5

York Sample ID: 21G1096-04

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 11:10 am	<u>Date Received</u> 07/22/2021
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Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	21.9		mg/kg	0.500	1	Calculation Certifications:	07/26/2021 13:08	07/26/2021 17:21	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.548	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/26/2021 08:41	07/26/2021 13:52	JAG

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	91.2		%	0.100	1	SM 2540G Certifications: CTDOH	07/24/2021 11:29	07/26/2021 09:05	TAJ



Sample Information

Client Sample ID: SO_DUP01_072221

York Sample ID: 21G1096-05

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 3:00 pm	<u>Date Received</u> 07/22/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.052	0.10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
78-93-3	2-Butanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ



Sample Information

Client Sample ID: SO_DUP01_072221

York Sample ID: 21G1096-05

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 3:00 pm	<u>Date Received</u> 07/22/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
67-64-1	Acetone	ND		mg/kg dry	0.0052	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
107-02-8	Acrolein	ND		mg/kg dry	0.0052	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 13:51	LLJ



Sample Information

Client Sample ID: SO_DUP01_072221

York Sample ID: 21G1096-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21G1096

170488401

Soil

July 22, 2021 3:00 pm

07/22/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include Ethyl Benzene, Hexachlorobutadiene, Isopropylbenzene, Methyl acetate, Methyl tert-butyl ether (MTBE), Methylcyclohexane, Methylene chloride, n-Butylbenzene, n-Propylbenzene, o-Xylene, p- & m- Xylenes, p-Isopropyltoluene, sec-Butylbenzene, Styrene, tert-Butyl alcohol (TBA), tert-Butylbenzene, Tetrachloroethylene, Toluene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropylene, Trichloroethylene, Trichlorofluoromethane.



Sample Information

Client Sample ID: SO_DUP01_072221

York Sample ID: 21G1096-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21G1096

170488401

Soil

July 22, 2021 3:00 pm

07/22/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for Vinyl Chloride, Xylenes, Total, and Surrogate Recoveries.

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various chlorophenols and biphenyls.



Sample Information

Client Sample ID: SO_DUP01_072221

York Sample ID: 21G1096-05

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 3:00 pm	<u>Date Received</u> 07/22/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0870	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0870	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0870	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0870	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0870	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
62-53-3	Aniline	ND		mg/kg dry	0.174	0.348	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
92-87-5	Benzidine	ND		mg/kg dry	0.174	0.348	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH



Sample Information

Client Sample ID: SO_DUP01_072221

York Sample ID: 21G1096-05

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 3:00 pm	<u>Date Received</u> 07/22/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0870	0.174	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0870	0.174	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH



Sample Information

Client Sample ID: SO_DUP01_072221

York Sample ID: 21G1096-05

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 3:00 pm	<u>Date Received</u> 07/22/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
108-95-2	Phenol	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH
110-86-1	Pyridine	ND		mg/kg dry	0.174	0.348	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:13	07/26/2021 17:45	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	37.6 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	32.7 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	38.3 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	41.7 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	38.2 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	46.3 %	24-116



Sample Information

Client Sample ID: SO_DUP01_072221

York Sample ID: 21G1096-05

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 3:00 pm	<u>Date Received</u> 07/22/2021
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Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM Certifications: NELAC-NY10854	07/23/2021 14:12	07/26/2021 18:45	KH
Surrogate Recoveries		Result			Acceptance Range					
17647-74-4	Surrogate: 1,4-Dioxane-d8	56.0 %			39-127.5					

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 06:21	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 06:21	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 06:21	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 06:21	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 06:21	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 06:21	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 06:21	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 06:21	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 06:21	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 06:21	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 06:21	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 06:21	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 06:21	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 06:21	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 06:21	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 06:21	WL



Sample Information

Client Sample ID: SO_DUP01_072221

York Sample ID: 21G1096-05

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 3:00 pm	<u>Date Received</u> 07/22/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 06:21	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 06:21	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 06:21	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 06:21	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	07/24/2021 13:55	07/27/2021 06:21	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	85.7 %	25-150
Surrogate: M5PFHxA	89.5 %	25-150
Surrogate: M4PFHpA	84.0 %	25-150
Surrogate: M3PFHxS	74.7 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid	88.6 %	25-150
Surrogate: M6PFDA	80.5 %	25-150
Surrogate: M7PFUDA	68.1 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	93.6 %	25-150
Surrogate: M2PFTeDA	58.8 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid	93.0 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfon	70.5 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid	98.3 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfon	54.2 %	10-150
Surrogate: d3-N-MeFOSAA	65.7 %	25-150
Surrogate: d5-N-EtFOSAA	78.9 %	25-150
Surrogate: M2-6:2 FTS	149 %	25-200
Surrogate: M2-8:2 FTS	185 %	25-200
Surrogate: M9PFNA	88.4 %	25-150

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:26	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:26	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:26	CM



Sample Information

Client Sample ID: SO_DUP01_072221

York Sample ID: 21G1096-05

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 3:00 pm	<u>Date Received</u> 07/22/2021
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:26	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:26	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	07/23/2021 12:09	07/27/2021 00:26	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:26	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:26	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:26	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:26	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	07/23/2021 12:09	07/27/2021 00:26	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:26	CM
72-20-8	Endrin	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:26	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:26	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:26	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:26	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	07/23/2021 12:09	07/27/2021 00:26	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:26	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:26	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:26	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 12:09	07/27/2021 00:26	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0345	5	EPA 8081B Certifications:	07/23/2021 12:09	07/27/2021 00:26	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	43.9 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	53.6 %	30-150							



Sample Information

Client Sample ID: SO_DUP01_072221

York Sample ID: 21G1096-05

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 3:00 pm	<u>Date Received</u> 07/22/2021
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 20:35	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 20:35	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 20:35	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 20:35	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 20:35	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 20:35	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/23/2021 12:09	07/26/2021 20:35	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications:	07/23/2021 12:09	07/26/2021 20:35	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	55.0 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	37.0 %	30-120							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	7000	B	mg/kg dry	5.25	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM
7440-36-0	Antimony	ND		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM
7440-39-3	Barium	39.3		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.053	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.315	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM
7440-70-2	Calcium	4440	B	mg/kg dry	5.25	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM
7440-47-3	Chromium	9.40		mg/kg dry	0.525	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM
7440-48-4	Cobalt	5.28		mg/kg dry	0.420	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM



Sample Information

Client Sample ID: SO_DUP01_072221

York Sample ID: 21G1096-05

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 3:00 pm	<u>Date Received</u> 07/22/2021
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	9.37		mg/kg dry	2.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM
7439-89-6	Iron	10700		mg/kg dry	26.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM
7439-92-1	Lead	4.53		mg/kg dry	0.525	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM
7439-95-4	Magnesium	4520		mg/kg dry	5.25	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM
7439-96-5	Manganese	343		mg/kg dry	0.525	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM
7440-02-0	Nickel	9.94		mg/kg dry	1.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM
7440-09-7	Potassium	1190	B	mg/kg dry	5.25	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM
7782-49-2	Selenium	ND		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM
7440-22-4	Silver	ND		mg/kg dry	0.525	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM
7440-23-5	Sodium	75.3		mg/kg dry	52.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM
7440-28-0	Thallium	ND		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM
7440-62-2	Vanadium	12.0		mg/kg dry	1.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM
7440-66-6	Zinc	24.0		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 14:56	07/26/2021 16:00	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0315	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	07/23/2021 15:58	07/23/2021 23:49	BR

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.525	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	07/26/2021 08:12	07/26/2021 15:45	OT

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SO_DUP01_072221

York Sample ID: 21G1096-05

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Soil	<u>Collection Date/Time</u> July 22, 2021 3:00 pm	<u>Date Received</u> 07/22/2021
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	9.40		mg/kg	0.500	1	Calculation	07/26/2021 13:08	07/26/2021 17:21	PAM
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.525	1	EPA 9014/9010C	07/26/2021 08:41	07/26/2021 13:52	JAG
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	95.2		%	0.100	1	SM 2540G	07/24/2021 11:29	07/26/2021 09:05	TAJ
Certifications: CTDOH										



Sample Information

Client Sample ID: SO_FB01_072221

York Sample ID: 21G1096-06

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 22, 2021 2:25 pm	<u>Date Received</u> 07/22/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA



Sample Information

Client Sample ID: SO_FB01_072221

York Sample ID: 21G1096-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21G1096

170488401

Water

July 22, 2021 2:25 pm

07/22/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA



Sample Information

Client Sample ID: SO_FB01_072221

York Sample ID: 21G1096-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21G1096

170488401

Water

July 22, 2021 2:25 pm

07/22/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
75-09-2	Methylene chloride	4.61		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA



Sample Information

Client Sample ID: SO_FB01_072221

York Sample ID: 21G1096-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21G1096

170488401

Water

July 22, 2021 2:25 pm

07/22/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:40	KHA
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/26/2021 06:47	07/26/2021 14:40	KHA
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	100 %			69-130						
2037-26-5	Surrogate: SURR: Toluene-d8	103 %			81-117						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	101 %			79-122						

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH



Sample Information

Client Sample ID: SO_FB01_072221

York Sample ID: 21G1096-06

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 22, 2021 2:25 pm	<u>Date Received</u> 07/22/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
100-02-7	4-Nitrophenol	ND		ug/L	5.26	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
98-86-2	Acetophenone	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
62-53-3	Aniline	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
100-52-7	Benzaldehyde	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
92-87-5	Benzidine	ND		ug/L	5.26	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
65-85-0	Benzoic acid	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.05	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH



Sample Information

Client Sample ID: SO_FB01_072221

York Sample ID: 21G1096-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21G1096

170488401

Water

July 22, 2021 2:25 pm

07/22/2021

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
105-60-2	Caprolactam	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
86-74-8	Carbazole	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
132-64-9	Dibenzofuran	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
122-39-4	Diphenylamine	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.26	10.5	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
78-59-1	Isophorone	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
108-95-2	Phenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH
110-86-1	Pyridine	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 11:40	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: SURR: 2-Fluorophenol	31.6 %	19.7-63.1
4165-62-2	Surrogate: SURR: Phenol-d5	20.0 %	10.1-41.7
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	60.0 %	50.2-113
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	55.9 %	39.9-105
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	69.9 %	39.3-151
1718-51-0	Surrogate: SURR: Terphenyl-d14	96.7 %	30.7-106

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SO_FB01_072221

York Sample ID: 21G1096-06

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 22, 2021 2:25 pm	<u>Date Received</u> 07/22/2021
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0526	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 16:58	CD
208-96-8	Acenaphthylene	ND		ug/L	0.0526	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 16:58	CD
120-12-7	Anthracene	ND		ug/L	0.0526	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 16:58	CD
1912-24-9	Atrazine	ND		ug/L	0.526	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	07/23/2021 06:32	07/26/2021 16:58	CD
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 16:58	CD
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 16:58	CD
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 16:58	CD
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 16:58	CD
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 16:58	CD
117-81-7	Bis(2-ethylhexyl)phthalate	16.5		ug/L	5.26	10	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	07/23/2021 06:32	07/26/2021 19:38	CD
218-01-9	Chrysene	ND		ug/L	0.0526	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 16:58	CD
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 16:58	CD
206-44-0	Fluoranthene	ND		ug/L	0.0526	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 16:58	CD
86-73-7	Fluorene	ND		ug/L	0.0526	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 16:58	CD
118-74-1	Hexachlorobenzene	ND		ug/L	0.0211	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	07/23/2021 06:32	07/26/2021 16:58	CD
87-68-3	Hexachlorobutadiene	ND		ug/L	0.526	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	07/23/2021 06:32	07/26/2021 16:58	CD
67-72-1	Hexachloroethane	ND		ug/L	0.526	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	07/23/2021 06:32	07/26/2021 16:58	CD
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 16:58	CD
91-20-3	Naphthalene	0.0526		ug/L	0.0526	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 16:58	CD
98-95-3	Nitrobenzene	ND		ug/L	0.263	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	07/23/2021 06:32	07/26/2021 16:58	CD
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.526	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	07/23/2021 06:32	07/26/2021 16:58	CD
87-86-5	Pentachlorophenol	ND		ug/L	0.263	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	07/23/2021 06:32	07/26/2021 16:58	CD



Sample Information

Client Sample ID: SO_FB01_072221

York Sample ID: 21G1096-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21G1096

170488401

Water

July 22, 2021 2:25 pm

07/22/2021

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	ND		ug/L	0.0526	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 16:58	CD
129-00-0	Pyrene	0.0842		ug/L	0.0526	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/23/2021 06:32	07/26/2021 16:58	CD

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	07/26/2021 06:53	07/26/2021 23:44	KH
	Surrogate Recoveries	Result					Acceptance Range			
17647-74-4	Surrogate: 1,4-Dioxane-d8	92.0 %					36.6-118			

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.92	1	EPA 537m Certifications:	07/24/2021 15:43	07/27/2021 08:56	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	1.92	1	EPA 537m Certifications:	07/24/2021 15:43	07/27/2021 08:56	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.92	1	EPA 537m Certifications:	07/24/2021 15:43	07/27/2021 08:56	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.92	1	EPA 537m Certifications:	07/24/2021 15:43	07/27/2021 08:56	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	1.92	1	EPA 537m Certifications:	07/24/2021 15:43	07/27/2021 08:56	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.92	1	EPA 537m Certifications:	07/24/2021 15:43	07/27/2021 08:56	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.92	1	EPA 537m Certifications:	07/24/2021 15:43	07/27/2021 08:56	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.92	1	EPA 537m Certifications:	07/24/2021 15:43	07/27/2021 08:56	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.92	1	EPA 537m Certifications:	07/24/2021 15:43	07/27/2021 08:56	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.92	1	EPA 537m Certifications:	07/24/2021 15:43	07/27/2021 08:56	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.92	1	EPA 537m Certifications:	07/24/2021 15:43	07/27/2021 08:56	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.92	1	EPA 537m Certifications:	07/24/2021 15:43	07/27/2021 08:56	WL



Sample Information

Client Sample ID: SO_FB01_072221

York Sample ID: 21G1096-06

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 22, 2021 2:25 pm	<u>Date Received</u> 07/22/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2355-31-9	* N-MeFOSAA	ND		ng/L	1.92	1	EPA 537m Certifications:	07/24/2021 15:43	07/27/2021 08:56	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.92	1	EPA 537m Certifications:	07/24/2021 15:43	07/27/2021 08:56	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	1.92	1	EPA 537m Certifications:	07/24/2021 15:43	07/27/2021 08:56	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.92	1	EPA 537m Certifications:	07/24/2021 15:43	07/27/2021 08:56	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.92	1	EPA 537m Certifications:	07/24/2021 15:43	07/27/2021 08:56	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.92	1	EPA 537m Certifications:	07/24/2021 15:43	07/27/2021 08:56	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.81	1	EPA 537m Certifications:	07/24/2021 15:43	07/27/2021 08:56	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.92	1	EPA 537m Certifications:	07/24/2021 15:43	07/27/2021 08:56	WL
375-22-4	* Perfluoro-n-butyric acid (PFBA)	ND		ng/L	1.92	1	EPA 537m Certifications:	07/24/2021 15:43	07/27/2021 08:56	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	104 %	25-150
Surrogate: M5PFHxA	112 %	25-150
Surrogate: M4PFHpA	106 %	25-150
Surrogate: M3PFHxS	103 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic aci	111 %	25-150
Surrogate: M6PFDA	124 %	25-150
Surrogate: M7PFUdA	122 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	126 %	25-150
Surrogate: M2PFTeDA	88.0 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic aci	115 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfo	107 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic ac	113 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfo	66.7 %	10-150
Surrogate: d3-N-MeFOSAA	140 %	25-150
Surrogate: d5-N-EtFOSAA	160 %	25-150
		PFSu-H , PTel-VA R
Surrogate: M2-6:2 FTS	200 %	25-200
Surrogate: M2-8:2 FTS	302 %	25-200
		PFSu-H , PTel-VA R
Surrogate: M9PFNA	122 %	25-150



Sample Information

Client Sample ID: SO_FB01_072221

York Sample ID: 21G1096-06

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 22, 2021 2:25 pm	<u>Date Received</u> 07/22/2021
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Pesticides, 8081 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 09:24	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 09:24	CM
50-29-3	4,4'-DDT	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 09:24	CM
309-00-2	Aldrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 09:24	CM
319-84-6	alpha-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 09:24	CM
5103-71-9	alpha-Chlordane	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 09:24	CM
319-85-7	beta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 09:24	CM
319-86-8	delta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 09:24	CM
60-57-1	Dieldrin	ND		ug/L	0.00205	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 09:24	CM
959-98-8	Endosulfan I	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 09:24	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 09:24	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 09:24	CM
72-20-8	Endrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 09:24	CM
7421-93-4	Endrin aldehyde	ND		ug/L	0.0103	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 09:24	CM
53494-70-5	Endrin ketone	ND		ug/L	0.0103	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 09:24	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 09:24	CM
5566-34-7	gamma-Chlordane	ND		ug/L	0.0103	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 09:24	CM
76-44-8	Heptachlor	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 09:24	CM
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 09:24	CM
72-43-5	Methoxychlor	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 09:24	CM
8001-35-2	Toxaphene	ND		ug/L	0.103	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 09:24	CM



Sample Information

Client Sample ID: SO_FB01_072221

York Sample ID: 21G1096-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21G1096

170488401

Water

July 22, 2021 2:25 pm

07/22/2021

Pesticides, 8081 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		ug/L	0.205	1	EPA 8081B Certifications:	07/26/2021 06:54	07/27/2021 09:24	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	74.9 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	75.8 %	30-150							

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 07:00	BJ
11104-28-2	Aroclor 1221	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 07:00	BJ
11141-16-5	Aroclor 1232	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 07:00	BJ
53469-21-9	Aroclor 1242	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 07:00	BJ
12672-29-6	Aroclor 1248	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 07:00	BJ
11097-69-1	Aroclor 1254	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 07:00	BJ
11096-82-5	Aroclor 1260	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 07:00	BJ
37324-23-5	Aroclor 1262	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 07:00	BJ
11100-14-4	Aroclor 1268	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	07/26/2021 06:54	07/27/2021 07:00	BJ
1336-36-3	* Total PCBs	ND		ug/L	0.0513	1	EPA 8082A Certifications:	07/26/2021 06:54	07/27/2021 07:00	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	92.0 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	89.0 %	30-120							

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	0.111		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 10:05	07/26/2021 15:18	EM



Sample Information

Client Sample ID: SO_FB01_072221

York Sample ID: 21G1096-06

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 22, 2021 2:25 pm	<u>Date Received</u> 07/22/2021
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Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 10:05	07/26/2021 15:18	EM
7440-70-2	Calcium	0.173		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 10:05	07/26/2021 15:18	EM
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 10:05	07/26/2021 15:18	EM
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 10:05	07/26/2021 15:18	EM
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 10:05	07/26/2021 15:18	EM
7439-89-6	Iron	0.327		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 10:05	07/26/2021 15:18	EM
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 10:05	07/26/2021 15:18	EM
7439-95-4	Magnesium	0.0771		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 10:05	07/26/2021 15:18	EM
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 10:05	07/26/2021 15:18	EM
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 10:05	07/26/2021 15:18	EM
7440-09-7	Potassium	0.201	B	mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 10:05	07/26/2021 15:18	EM
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 10:05	07/26/2021 15:18	EM
7440-23-5	Sodium	ND		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 10:05	07/26/2021 15:18	EM
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 10:05	07/26/2021 15:18	EM
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 10:05	07/26/2021 15:18	EM

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 09:35	07/26/2021 14:22	WJM
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 09:35	07/26/2021 14:22	WJM
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 09:35	07/26/2021 14:22	WJM
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 09:35	07/26/2021 14:22	WJM



Sample Information

Client Sample ID: SO_FB01_072221

York Sample ID: 21G1096-06

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 22, 2021 2:25 pm	<u>Date Received</u> 07/22/2021
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Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 09:35	07/26/2021 14:22	WJM
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 09:35	07/26/2021 14:22	WJM

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/26/2021 13:25	07/26/2021 13:25	AD

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/22/2021 19:58	07/22/2021 21:55	ZTS

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation Certifications:	07/26/2021 13:02	07/26/2021 17:21	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/24/2021 11:04	07/24/2021 13:09	ZTS



Sample Information

Client Sample ID: TB01_072221

York Sample ID: 21G1096-07

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 22, 2021 3:00 pm	<u>Date Received</u> 07/22/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA



Sample Information

Client Sample ID: TB01_072221

York Sample ID: 21G1096-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21G1096

170488401

Water

July 22, 2021 3:00 pm

07/22/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA



Sample Information

Client Sample ID: TB01_072221

York Sample ID: 21G1096-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21G1096

170488401

Water

July 22, 2021 3:00 pm

07/22/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA



Sample Information

Client Sample ID: TB01_072221

York Sample ID: 21G1096-07

<u>York Project (SDG) No.</u> 21G1096	<u>Client Project ID</u> 170488401	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 22, 2021 3:00 pm	<u>Date Received</u> 07/22/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/26/2021 06:47	07/26/2021 14:13	KHA
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/26/2021 06:47	07/26/2021 14:13	KHA
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	100 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	103 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	102 %	79-122								



Analytical Batch Summary

Batch ID: BG11258 **Preparation Method:** Analysis Preparation **Prepared By:** ZTS

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-06	SO_FB01_072221	07/22/21
BG11258-BLK1	Blank	07/22/21
BG11258-BS1	LCS	07/22/21
BG11258-DUP1	Duplicate	07/22/21
BG11258-MS1	Matrix Spike	07/22/21

Batch ID: BG11263 **Preparation Method:** EPA 3510C **Prepared By:** MC

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-06	SO_FB01_072221	07/23/21
21G1096-06RE1	SO_FB01_072221	07/23/21
BG11263-BLK1	Blank	07/23/21
BG11263-BLK2	Blank	07/23/21
BG11263-BS1	LCS	07/23/21
BG11263-BS2	LCS	07/23/21
BG11263-BSD1	LCS Dup	07/23/21

Batch ID: BG11288 **Preparation Method:** EPA 3550C **Prepared By:** MAM

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-01	414_EP01_8.5	07/23/21
21G1096-01	414_EP01_8.5	07/23/21
21G1096-02	414_EP06_8.5	07/23/21
21G1096-02	414_EP06_8.5	07/23/21
21G1096-03	414_EP02_8.5	07/23/21
21G1096-03	414_EP02_8.5	07/23/21
21G1096-04	414_EP07_8.5	07/23/21
21G1096-04	414_EP07_8.5	07/23/21
21G1096-05	SO_DUP01_072221	07/23/21
21G1096-05	SO_DUP01_072221	07/23/21
BG11288-BLK1	Blank	07/23/21
BG11288-BLK2	Blank	07/23/21
BG11288-BS1	LCS	07/23/21
BG11288-BS2	LCS	07/23/21

Batch ID: BG11289 **Preparation Method:** EPA 3546 SVOA **Prepared By:** S_K

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-01	414_EP01_8.5	07/23/21
21G1096-02	414_EP06_8.5	07/23/21
21G1096-03	414_EP02_8.5	07/23/21
21G1096-04	414_EP07_8.5	07/23/21
21G1096-05	SO_DUP01_072221	07/23/21
BG11289-BLK1	Blank	07/23/21



BG11289-BS1

LCS

07/23/21

Batch ID: BG11304

Preparation Method: EPA 3550C

Prepared By: SJB

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-01	414_EP01_8.5	07/23/21
21G1096-02	414_EP06_8.5	07/23/21
21G1096-03	414_EP02_8.5	07/23/21
21G1096-04	414_EP07_8.5	07/23/21
21G1096-05	SO_DUP01_072221	07/23/21
BG11304-BLK1	Blank	07/23/21
BG11304-BS1	LCS	07/23/21
BG11304-MS1	Matrix Spike	07/23/21
BG11304-MS2	Matrix Spike	07/23/21
BG11304-MSD1	Matrix Spike Dup	07/23/21
BG11304-MSD2	Matrix Spike Dup	07/23/21

Batch ID: BG11305

Preparation Method: EPA SW846-3060

Prepared By: ZTS

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-01	414_EP01_8.5	07/23/21
BG11305-BLK1	Blank	07/23/21
BG11305-DUP1	Duplicate	07/23/21
BG11305-MS1	Matrix Spike	07/23/21
BG11305-SRM1	Reference	07/23/21

Batch ID: BG11314

Preparation Method: EPA 3050B

Prepared By: BR

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-01	414_EP01_8.5	07/23/21
21G1096-02	414_EP06_8.5	07/23/21
21G1096-03	414_EP02_8.5	07/23/21
21G1096-04	414_EP07_8.5	07/23/21
21G1096-05	SO_DUP01_072221	07/23/21
BG11314-BLK1	Blank	07/23/21
BG11314-DUP1	Duplicate	07/23/21
BG11314-MS1	Matrix Spike	07/23/21
BG11314-PS1	Post Spike	07/23/21
BG11314-SRM1	Reference	07/23/21

Batch ID: BG11315

Preparation Method: EPA 7473 soil

Prepared By: BR

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-01	414_EP01_8.5	07/23/21
21G1096-02	414_EP06_8.5	07/23/21
21G1096-03	414_EP02_8.5	07/23/21
21G1096-04	414_EP07_8.5	07/23/21
21G1096-05	SO_DUP01_072221	07/23/21
BG11315-BLK1	Blank	07/23/21



BG11315-DUP1 Duplicate 07/23/21
BG11315-MS1 Matrix Spike 07/23/21
BG11315-SRM1 Reference 07/23/21

Batch ID: BG11323 **Preparation Method:** EPA 5035A **Prepared By:** LLJ

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-04	414_EP07_8.5	07/23/21
BG11323-BLK1	Blank	07/23/21
BG11323-BLK2	Blank	07/23/21
BG11323-BLK3	Blank	07/23/21
BG11323-BS1	LCS	07/23/21
BG11323-BSD1	LCS Dup	07/23/21
BG11323-MS1	Matrix Spike	07/23/21
BG11323-MSD1	Matrix Spike Dup	07/23/21

Batch ID: BG11334 **Preparation Method:** EPA 5035A **Prepared By:** LLJ

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-01	414_EP01_8.5	07/23/21
21G1096-02	414_EP06_8.5	07/23/21
21G1096-03	414_EP02_8.5	07/23/21
BG11334-BLK1	Blank	07/23/21
BG11334-BLK2	Blank	07/23/21
BG11334-BLK3	Blank	07/23/21
BG11334-BLK4	Blank	07/23/21
BG11334-BS1	LCS	07/23/21

Batch ID: BG11337 **Preparation Method:** Analysis Preparation **Prepared By:** ZTS

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-06	SO_FB01_072221	07/24/21
BG11337-BLK1	Blank	07/24/21
BG11337-BS1	LCS	07/24/21
BG11337-DUP1	Duplicate	07/24/21
BG11337-MS1	Matrix Spike	07/24/21

Batch ID: BG11338 **Preparation Method:** % Solids Prep **Prepared By:** ZTS

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-01	414_EP01_8.5	07/24/21
21G1096-02	414_EP06_8.5	07/24/21
21G1096-03	414_EP02_8.5	07/24/21
21G1096-04	414_EP07_8.5	07/24/21
21G1096-05	SO_DUP01_072221	07/24/21
BG11338-DUP1	Duplicate	07/24/21



Batch ID: BG11344 **Preparation Method:** SPE PFAS Extraction-Soil-EPA 537m **Prepared By:** SG

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-01	414_EP01_8.5	07/24/21
21G1096-02	414_EP06_8.5	07/24/21
21G1096-03	414_EP02_8.5	07/24/21
21G1096-04	414_EP07_8.5	07/24/21
21G1096-05	SO_DUP01_072221	07/24/21
BG11344-BLK1	Blank	07/24/21
BG11344-BS1	LCS	07/24/21
BG11344-MS1	Matrix Spike	07/24/21
BG11344-MSD1	Matrix Spike Dup	07/24/21

Batch ID: BG11347 **Preparation Method:** SPE Ext-PFAS-EPA 537.1M **Prepared By:** SG

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-06	SO_FB01_072221	07/24/21

Batch ID: BG11350 **Preparation Method:** EPA 3535A **Prepared By:** SJB

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-06	SO_FB01_072221	07/26/21
BG11350-BLK1	Blank	07/26/21
BG11350-BS1	LCS	07/26/21
BG11350-MS1	Matrix Spike	07/26/21
BG11350-MSD1	Matrix Spike Dup	07/26/21

Batch ID: BG11351 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** MC

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-06	SO_FB01_072221	07/26/21
21G1096-06	SO_FB01_072221	07/26/21
BG11351-BLK1	Blank	07/26/21
BG11351-BLK2	Blank	07/26/21
BG11351-BS1	LCS	07/26/21
BG11351-BS2	LCS	07/26/21
BG11351-BSD1	LCS Dup	07/26/21
BG11351-BSD2	LCS Dup	07/26/21

Batch ID: BG11354 **Preparation Method:** EPA SW846-3060 **Prepared By:** JAG

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-02	414_EP06_8.5	07/26/21
21G1096-03	414_EP02_8.5	07/26/21
21G1096-04	414_EP07_8.5	07/26/21
21G1096-05	SO_DUP01_072221	07/26/21
BG11354-BLK1	Blank	07/26/21
BG11354-DUP1	Duplicate	07/26/21
BG11354-MS1	Matrix Spike	07/26/21



BG11354-MS2 Matrix Spike 07/26/21
 BG11354-SRM1 Reference 07/26/21

Batch ID: BG11355 **Preparation Method:** Analysis Preparation Soil **Prepared By:** JAG

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-01	414_EP01_8.5	07/26/21
21G1096-02	414_EP06_8.5	07/26/21
21G1096-03	414_EP02_8.5	07/26/21
21G1096-04	414_EP07_8.5	07/26/21
21G1096-05	SO_DUP01_072221	07/26/21
BG11355-BLK1	Blank	07/26/21
BG11355-DUP1	Duplicate	07/26/21
BG11355-MS1	Matrix Spike	07/26/21
BG11355-SRM1	Reference	07/26/21

Batch ID: BG11366 **Preparation Method:** EPA 3015A **Prepared By:** WJM

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-06	SO_FB01_072221	07/26/21
BG11366-BLK1	Blank	07/26/21
BG11366-BS1	LCS	07/26/21
BG11366-DUP1	Duplicate	07/26/21
BG11366-MS1	Matrix Spike	07/26/21

Batch ID: BG11372 **Preparation Method:** EPA 3015A **Prepared By:** ALH

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-06	SO_FB01_072221	07/26/21
BG11372-BLK1	Blank	07/26/21
BG11372-BS1	LCS	07/26/21

Batch ID: BG11386 **Preparation Method:** Analysis Preparation **Prepared By:** PAM

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-06	SO_FB01_072221	07/26/21

Batch ID: BG11387 **Preparation Method:** Analysis Preparation **Prepared By:** PAM

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-01	414_EP01_8.5	07/26/21
21G1096-02	414_EP06_8.5	07/26/21
21G1096-03	414_EP02_8.5	07/26/21
21G1096-04	414_EP07_8.5	07/26/21
21G1096-05	SO_DUP01_072221	07/26/21



Batch ID: BG11388

Preparation Method: EPA SW846-7470A

Prepared By: AD

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-06	SO_FB01_072221	07/26/21
BG11388-BLK1	Blank	07/26/21
BG11388-BLK2	Blank	07/26/21
BG11388-BS1	LCS	07/26/21
BG11388-BS2	LCS	07/26/21

Batch ID: BG11401

Preparation Method: EPA 5035A

Prepared By: KHA

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-05	SO_DUP01_072221	07/26/21
BG11401-BLK1	Blank	07/26/21
BG11401-BLK2	Blank	07/26/21
BG11401-BS1	LCS	07/26/21
BG11401-BSD1	LCS Dup	07/26/21

Batch ID: BG11409

Preparation Method: EPA 5030B

Prepared By: KHA

YORK Sample ID	Client Sample ID	Preparation Date
21G1096-06	SO_FB01_072221	07/26/21
21G1096-07	TB01_072221	07/26/21
BG11409-BLK1	Blank	07/26/21
BG11409-BS1	LCS	07/26/21
BG11409-BSD1	LCS Dup	07/26/21



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11323 - EPA 5035A

Blank (BG11323-BLK1)	Blank	Prepared & Analyzed: 07/23/2021									
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11323 - EPA 5035A

Blank (BG11323-BLK1)	Blank	Prepared & Analyzed: 07/23/2021									
n-Butylbenzene	ND	0.0050	mg/kg wet								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
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Surrogate: SURRE: 1,2-Dichloroethane-d4	46.9		ug/L	50.0		93.7	77-125				
Surrogate: SURRE: Toluene-d8	51.3		"	50.0		103	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	46.6		"	50.0		93.3	76-130				

Blank (BG11323-BLK2)	Blank	Prepared & Analyzed: 07/23/2021									
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11323 - EPA 5035A

Blank (BG11323-BLK2) Blank Prepared & Analyzed: 07/23/2021

Bromoform	ND	0.0050	mg/kg wet								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								

Surrogate: SURRE: 1,2-Dichloroethane-d4	46.2		ug/L	50.0		92.4	77-125				
Surrogate: SURRE: Toluene-d8	51.0		"	50.0		102	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	47.7		"	50.0		95.4	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	
Batch BG11323 - EPA 5035A											
Blank (BG11323-BLK3)	Holding Blank- 21G0978								Prepared & Analyzed: 07/23/2021		
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

Batch BG11323 - EPA 5035A

Blank (BG11323-BLK3) Holding Blank- 21G0978 Prepared & Analyzed: 07/23/2021

n-Propylbenzene	ND	0.0050	mg/kg wet								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								

<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	46.5		ug/L	50.0	92.9	77-125					
<i>Surrogate: SURR: Toluene-d8</i>	50.9		"	50.0	102	85-120					
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	47.0		"	50.0	94.1	76-130					

LCS (BG11323-BS1) LCS Prepared & Analyzed: 07/23/2021

1,1,1,2-Tetrachloroethane	55.6		ug/L	50.0	111	75-129					
1,1,1-Trichloroethane	47.3		"	50.0	94.6	71-137					
1,1,2,2-Tetrachloroethane	63.8		"	50.0	128	79-129					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	57.3		"	50.0	115	58-146					
1,1,2-Trichloroethane	57.6		"	50.0	115	83-123					
1,1-Dichloroethane	46.4		"	50.0	92.7	75-130					
1,1-Dichloroethylene	45.3		"	50.0	90.6	64-137					
1,2,3-Trichlorobenzene	54.1		"	50.0	108	81-140					
1,2,3-Trichloropropane	56.3		"	50.0	113	81-126					
1,2,4-Trichlorobenzene	55.2		"	50.0	110	80-141					
1,2,4-Trimethylbenzene	51.7		"	50.0	103	84-125					
1,2-Dibromo-3-chloropropane	48.2		"	50.0	96.5	74-142					
1,2-Dibromoethane	56.8		"	50.0	114	86-123					
1,2-Dichlorobenzene	55.9		"	50.0	112	85-122					
1,2-Dichloroethane	47.1		"	50.0	94.3	71-133					
1,2-Dichloropropane	52.9		"	50.0	106	81-122					
1,3,5-Trimethylbenzene	60.5		"	50.0	121	82-126					
1,3-Dichlorobenzene	55.0		"	50.0	110	84-124					
1,4-Dichlorobenzene	54.4		"	50.0	109	84-124					
1,4-Dioxane	95.0		"	1050	90.5	10-228					
2-Butanone	31.8		"	50.0	63.7	58-147					
2-Hexanone	43.3		"	50.0	86.7	70-139					
4-Methyl-2-pentanone	46.0		"	50.0	91.9	72-132					
Acetone	26.8		"	50.0	53.6	36-155					
Acrolein	35.3		"	50.0	70.7	10-238					
Acrylonitrile	50.7		"	50.0	101	66-141					
Benzene	52.0		"	50.0	104	77-127					
Bromochloromethane	47.5		"	50.0	95.0	74-129					
Bromodichloromethane	51.2		"	50.0	102	81-124					
Bromoform	58.6		"	50.0	117	80-136					



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					RPD	
Batch BG11323 - EPA 5035A											
LCS (BG11323-BS1)	LCS	Prepared & Analyzed: 07/23/2021									
Bromomethane	83.0		ug/L	50.0		166		32-177			
Carbon disulfide	55.2		"	50.0		110		10-136			
Carbon tetrachloride	45.9		"	50.0		91.8		66-143			
Chlorobenzene	53.3		"	50.0		107		86-120			
Chloroethane	57.1		"	50.0		114		51-142			
Chloroform	48.9		"	50.0		97.9		76-131			
Chloromethane	55.6		"	50.0		111		49-132			
cis-1,2-Dichloroethylene	47.1		"	50.0		94.3		74-132			
cis-1,3-Dichloropropylene	54.1		"	50.0		108		81-129			
Cyclohexane	38.5		"	50.0		77.1		70-130			
Dibromochloromethane	59.8		"	50.0		120		10-200			
Dibromomethane	51.8		"	50.0		104		83-124			
Dichlorodifluoromethane	72.4		"	50.0		145		28-158			
Ethyl Benzene	50.5		"	50.0		101		84-125			
Hexachlorobutadiene	50.0		"	50.0		99.9		83-133			
Isopropylbenzene	48.0		"	50.0		96.0		81-127			
Methyl acetate	45.0		"	50.0		89.9		41-143			
Methyl tert-butyl ether (MTBE)	43.0		"	50.0		86.1		74-131			
Methylcyclohexane	50.5		"	50.0		101		70-130			
Methylene chloride	47.7		"	50.0		95.4		57-141			
n-Butylbenzene	46.6		"	50.0		93.2		80-130			
n-Propylbenzene	48.3		"	50.0		96.6		74-136			
o-Xylene	51.8		"	50.0		104		83-123			
p- & m- Xylenes	99.6		"	100		99.6		82-128			
p-Isopropyltoluene	49.7		"	50.0		99.4		85-125			
sec-Butylbenzene	50.5		"	50.0		101		83-125			
Styrene	55.3		"	50.0		111		86-126			
tert-Butyl alcohol (TBA)	182		"	250		72.9		70-130			
tert-Butylbenzene	43.9		"	50.0		87.7		80-127			
Tetrachloroethylene	45.3		"	50.0		90.7		80-129			
Toluene	50.6		"	50.0		101		85-121			
trans-1,2-Dichloroethylene	49.4		"	50.0		98.8		72-132			
trans-1,3-Dichloropropylene	54.6		"	50.0		109		78-132			
Trichloroethylene	47.1		"	50.0		94.1		84-123			
Trichlorofluoromethane	52.6		"	50.0		105		62-140			
Vinyl Chloride	59.9		"	50.0		120		52-130			
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>46.8</i>		<i>"</i>	<i>50.0</i>		<i>93.6</i>		<i>77-125</i>			
<i>Surrogate: SURR: Toluene-d8</i>	<i>50.6</i>		<i>"</i>	<i>50.0</i>		<i>101</i>		<i>85-120</i>			
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>47.3</i>		<i>"</i>	<i>50.0</i>		<i>94.5</i>		<i>76-130</i>			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG11323 - EPA 5035A											
LCS Dup (BG11323-BSD1)		LCS Dup		Prepared & Analyzed: 07/23/2021							
1,1,1,2-Tetrachloroethane	56.0		ug/L	50.0		112	75-129		0.734	30	
1,1,1-Trichloroethane	39.1		"	50.0		78.2	71-137		19.0	30	
1,1,2,2-Tetrachloroethane	64.5		"	50.0		129	79-129		1.06	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	56.7		"	50.0		113	58-146		0.930	30	
1,1,2-Trichloroethane	58.1		"	50.0		116	83-123		0.917	30	
1,1-Dichloroethane	45.2		"	50.0		90.5	75-130		2.42	30	
1,1-Dichloroethylene	49.5		"	50.0		99.0	64-137		8.84	30	
1,2,3-Trichlorobenzene	55.5		"	50.0		111	81-140		2.52	30	
1,2,3-Trichloropropane	56.5		"	50.0		113	81-126		0.426	30	
1,2,4-Trichlorobenzene	56.1		"	50.0		112	80-141		1.65	30	
1,2,4-Trimethylbenzene	52.4		"	50.0		105	84-125		1.48	30	
1,2-Dibromo-3-chloropropane	48.8		"	50.0		97.7	74-142		1.24	30	
1,2-Dibromoethane	57.4		"	50.0		115	86-123		0.998	30	
1,2-Dichlorobenzene	56.4		"	50.0		113	85-122		0.926	30	
1,2-Dichloroethane	46.7		"	50.0		93.4	71-133		0.938	30	
1,2-Dichloropropane	52.2		"	50.0		104	81-122		1.16	30	
1,3,5-Trimethylbenzene	61.0		"	50.0		122	82-126		0.922	30	
1,3-Dichlorobenzene	55.0		"	50.0		110	84-124		0.0182	30	
1,4-Dichlorobenzene	55.3		"	50.0		111	84-124		1.71	30	
1,4-Dioxane	960		"	1050		91.4	10-228		1.03	30	
2-Butanone	31.5		"	50.0		62.9	58-147		1.17	30	
2-Hexanone	44.6		"	50.0		89.2	70-139		2.87	30	
4-Methyl-2-pentanone	46.3		"	50.0		92.6	72-132		0.780	30	
Acetone	26.8		"	50.0		53.6	36-155		0.112	30	
Acrolein	35.3		"	50.0		70.6	10-238		0.0849	30	
Acrylonitrile	50.2		"	50.0		100	66-141		0.971	30	
Benzene	51.9		"	50.0		104	77-127		0.0770	30	
Bromochloromethane	47.0		"	50.0		93.9	74-129		1.10	30	
Bromodichloromethane	51.5		"	50.0		103	81-124		0.624	30	
Bromoform	59.2		"	50.0		118	80-136		0.866	30	
Bromomethane	83.2		"	50.0		166	32-177		0.289	30	
Carbon disulfide	53.6		"	50.0		107	10-136		2.85	30	
Carbon tetrachloride	42.8		"	50.0		85.6	66-143		6.97	30	
Chlorobenzene	53.3		"	50.0		107	86-120		0.131	30	
Chloroethane	57.6		"	50.0		115	51-142		0.855	30	
Chloroform	48.4		"	50.0		96.7	76-131		1.19	30	
Chloromethane	55.0		"	50.0		110	49-132		1.10	30	
cis-1,2-Dichloroethylene	45.1		"	50.0		90.3	74-132		4.34	30	
cis-1,3-Dichloropropylene	54.0		"	50.0		108	81-129		0.0555	30	
Cyclohexane	37.9		"	50.0		75.8	70-130		1.70	30	
Dibromochloromethane	59.8		"	50.0		120	10-200		0.0501	30	
Dibromomethane	52.4		"	50.0		105	83-124		1.15	30	
Dichlorodifluoromethane	72.6		"	50.0		145	28-158		0.207	30	
Ethyl Benzene	50.6		"	50.0		101	84-125		0.139	30	
Hexachlorobutadiene	51.6		"	50.0		103	83-133		3.11	30	
Isopropylbenzene	48.5		"	50.0		97.0	81-127		0.974	30	
Methyl acetate	44.9		"	50.0		89.8	41-143		0.156	30	
Methyl tert-butyl ether (MTBE)	41.5		"	50.0		83.1	74-131		3.57	30	
Methylcyclohexane	50.9		"	50.0		102	70-130		0.927	30	
Methylene chloride	48.0		"	50.0		95.9	57-141		0.586	30	
n-Butylbenzene	46.6		"	50.0		93.2	80-130		0.0214	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG11323 - EPA 5035A											
LCS Dup (BG11323-BSD1) LCS Dup		Prepared & Analyzed: 07/23/2021									
n-Propylbenzene	48.8		ug/L	50.0		97.6	74-136		1.03	30	
o-Xylene	52.0		"	50.0		104	83-123		0.539	30	
p- & m- Xylenes	100		"	100		100	82-128		0.660	30	
p-Isopropyltoluene	49.6		"	50.0		99.3	85-125		0.101	30	
sec-Butylbenzene	50.9		"	50.0		102	83-125		0.671	30	
Styrene	55.8		"	50.0		112	86-126		0.882	30	
tert-Butyl alcohol (TBA)	185		"	250		74.1	70-130		1.74	30	
tert-Butylbenzene	44.1		"	50.0		88.3	80-127		0.591	30	
Tetrachloroethylene	46.1		"	50.0		92.2	80-129		1.66	30	
Toluene	51.6		"	50.0		103	85-121		1.94	30	
trans-1,2-Dichloroethylene	48.4		"	50.0		96.9	72-132		2.00	30	
trans-1,3-Dichloropropylene	55.1		"	50.0		110	78-132		0.838	30	
Trichloroethylene	47.0		"	50.0		94.0	84-123		0.128	30	
Trichlorofluoromethane	52.0		"	50.0		104	62-140		1.30	30	
Vinyl Chloride	59.6		"	50.0		119	52-130		0.586	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	46.4		"	50.0		92.8	77-125				
Surrogate: SURR: Toluene-d8	50.8		"	50.0		102	85-120				
Surrogate: SURR: p-Bromofluorobenzene	47.7		"	50.0		95.4	76-130				
Matrix Spike (BG11323-MS1) Matrix Spike		*Source sample: 21G1096-04 (414_EP07_8.5) Prepared & Analyzed: 07/23/2021									
1,1,1,2-Tetrachloroethane	44.8		ug/L	50.0	0.00	89.5	15-161				
1,1,1-Trichloroethane	31.6		"	50.0	0.00	63.3	42-145				
1,1,2,2-Tetrachloroethane	50.2		"	50.0	0.00	100	16-167				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	42.7		"	50.0	0.00	85.5	11-160				
1,1,2-Trichloroethane	47.4		"	50.0	0.00	94.8	44-145				
1,1-Dichloroethane	36.6		"	50.0	0.00	73.2	46-142				
1,1-Dichloroethylene	39.1		"	50.0	0.00	78.2	30-153				
1,2,3-Trichlorobenzene	40.1		"	50.0	0.00	80.1	10-157				
1,2,3-Trichloropropane	45.2		"	50.0	0.00	90.3	38-155				
1,2,4-Trichlorobenzene	39.6		"	50.0	0.00	79.3	10-151				
1,2,4-Trimethylbenzene	39.3		"	50.0	0.00	78.5	10-170				
1,2-Dibromo-3-chloropropane	37.5		"	50.0	0.00	75.0	36-138				
1,2-Dibromoethane	46.8		"	50.0	0.00	93.6	40-142				
1,2-Dichlorobenzene	43.6		"	50.0	0.00	87.2	10-147				
1,2-Dichloroethane	38.3		"	50.0	0.00	76.6	48-133				
1,2-Dichloropropane	42.5		"	50.0	0.00	85.1	47-141				
1,3,5-Trimethylbenzene	48.0		"	50.0	0.00	96.0	10-150				
1,3-Dichlorobenzene	42.0		"	50.0	0.00	84.0	10-144				
1,4-Dichlorobenzene	41.5		"	50.0	0.00	83.0	10-160				
1,4-Dioxane	668		"	1050	0.00	63.6	10-191				
2-Butanone	25.7		"	50.0	0.00	51.4	10-189				
2-Hexanone	34.9		"	50.0	0.00	69.8	10-181				
4-Methyl-2-pentanone	36.4		"	50.0	0.00	72.8	10-166				
Acetone	21.1		"	50.0	3.17	35.8	10-196				
Acrolein	14.5		"	50.0	0.00	29.0	10-192				
Acrylonitrile	38.2		"	50.0	0.00	76.5	13-161				
Benzene	41.3		"	50.0	0.00	82.7	43-139				
Bromochloromethane	38.9		"	50.0	0.00	77.9	38-145				
Bromodichloromethane	41.3		"	50.0	0.00	82.6	38-147				
Bromoform	47.9		"	50.0	0.00	95.8	29-156				
Bromomethane	57.6		"	50.0	0.00	115	10-166				



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD	
		Limit	Units							Limit	Flag

Batch BG11323 - EPA 5035A

Matrix Spike (BG11323-MS1)	Matrix Spike	*Source sample: 21G1096-04 (414_EP07_8.5)					Prepared & Analyzed: 07/23/2021				
Carbon disulfide		41.4	ug/L	50.0	0.00	82.7	10-131				
Carbon tetrachloride		32.9	"	50.0	0.00	65.9	35-145				
Chlorobenzene		41.6	"	50.0	0.00	83.2	21-154				
Chloroethane		45.7	"	50.0	0.00	91.4	15-160				
Chloroform		38.8	"	50.0	0.00	77.6	47-142				
Chloromethane		45.2	"	50.0	0.00	90.4	10-159				
cis-1,2-Dichloroethylene		37.1	"	50.0	0.00	74.1	42-144				
cis-1,3-Dichloropropylene		42.8	"	50.0	0.00	85.7	18-159				
Cyclohexane		30.0	"	50.0	0.00	60.0	70-130	Low Bias			
Dibromochloromethane		49.0	"	50.0	0.00	97.9	10-179				
Dibromomethane		42.9	"	50.0	0.00	85.8	47-143				
Dichlorodifluoromethane		50.4	"	50.0	0.00	101	10-145				
Ethyl Benzene		39.1	"	50.0	0.00	78.2	11-158				
Hexachlorobutadiene		35.4	"	50.0	0.00	70.9	10-158				
Isopropylbenzene		38.0	"	50.0	0.00	76.1	10-162				
Methyl acetate		42.3	"	50.0	0.00	84.7	10-149				
Methyl tert-butyl ether (MTBE)		32.2	"	50.0	0.00	64.3	42-152				
Methylcyclohexane		39.1	"	50.0	0.00	78.2	70-130				
Methylene chloride		39.0	"	50.0	0.00	78.0	28-151				
n-Butylbenzene		39.8	"	50.0	0.00	79.5	10-162				
n-Propylbenzene		36.4	"	50.0	0.00	72.9	10-155				
o-Xylene		40.9	"	50.0	0.00	81.7	10-158				
p- & m- Xylenes		77.2	"	100	0.00	77.2	10-156				
p-Isopropyltoluene		37.6	"	50.0	0.00	75.1	10-147				
sec-Butylbenzene		38.5	"	50.0	0.00	77.1	10-157				
Styrene		42.9	"	50.0	0.00	85.8	13-171				
tert-Butyl alcohol (TBA)		142	"	250	0.00	56.9	34-179				
tert-Butylbenzene		33.8	"	50.0	0.00	67.7	10-160				
Tetrachloroethylene		35.6	"	50.0	0.00	71.1	30-167				
Toluene		40.5	"	50.0	0.00	81.0	21-160				
trans-1,2-Dichloroethylene		38.2	"	50.0	0.00	76.3	29-153				
trans-1,3-Dichloropropylene		44.0	"	50.0	0.00	87.9	18-155				
Trichloroethylene		37.6	"	50.0	0.00	75.1	24-169				
Trichlorofluoromethane		40.4	"	50.0	0.00	80.8	35-142				
Vinyl Chloride		46.6	"	50.0	0.00	93.1	12-160				
Surrogate: SURR: 1,2-Dichloroethane-d4		46.4	"	50.0		92.9	77-125				
Surrogate: SURR: Toluene-d8		50.6	"	50.0		101	85-120				
Surrogate: SURR: p-Bromofluorobenzene		47.6	"	50.0		95.2	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG11323 - EPA 5035A											
Matrix Spike Dup (BG11323-1) Matrix Spike Dup						Source sample: 21G1096-04 (414_EP07_8.5)					
						Prepared & Analyzed: 07/23/2021					
1,1,1,2-Tetrachloroethane	46.6		ug/L	50.0	0.00	93.3	15-161		4.09	33	
1,1,1-Trichloroethane	33.5		"	50.0	0.00	66.9	42-145		5.62	30	
1,1,2,2-Tetrachloroethane	47.7		"	50.0	0.00	95.4	16-167		5.19	56	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	47.9		"	50.0	0.00	95.8	11-160		11.4	31	
1,1,2-Trichloroethane	50.0		"	50.0	0.00	100	44-145		5.46	40	
1,1-Dichloroethane	38.9		"	50.0	0.00	77.8	46-142		6.12	36	
1,1-Dichloroethylene	43.6		"	50.0	0.00	87.3	30-153		11.0	31	
1,2,3-Trichlorobenzene	42.2		"	50.0	0.00	84.4	10-157		5.18	47	
1,2,3-Trichloropropane	50.1		"	50.0	0.00	100	38-155		10.4	48	
1,2,4-Trichlorobenzene	41.1		"	50.0	0.00	82.3	10-151		3.69	52	
1,2,4-Trimethylbenzene	41.6		"	50.0	0.00	83.2	10-170		5.71	242	
1,2-Dibromo-3-chloropropane	42.7		"	50.0	0.00	85.3	36-138		12.9	54	
1,2-Dibromoethane	50.0		"	50.0	0.00	100	40-142		6.73	39	
1,2-Dichlorobenzene	46.0		"	50.0	0.00	92.1	10-147		5.40	52	
1,2-Dichloroethane	40.1		"	50.0	0.00	80.1	48-133		4.44	32	
1,2-Dichloropropane	44.2		"	50.0	0.00	88.4	47-141		3.85	37	
1,3,5-Trimethylbenzene	50.4		"	50.0	0.00	101	10-150		4.92	62	
1,3-Dichlorobenzene	44.1		"	50.0	0.00	88.2	10-144		4.85	51	
1,4-Dichlorobenzene	43.8		"	50.0	0.00	87.6	10-160		5.39	52	
1,4-Dioxane	955		"	1050	0.00	91.0	10-191		35.4	196	
2-Butanone	29.5		"	50.0	0.00	58.9	10-189		13.7	67	
2-Hexanone	38.4		"	50.0	0.00	76.9	10-181		9.62	60	
4-Methyl-2-pentanone	42.4		"	50.0	0.00	84.9	10-166		15.3	47	
Acetone	26.0		"	50.0	4.36	43.2	10-196		20.8	150	
Acrolein	8.74		"	50.0	0.00	17.5	10-192		49.5	128	
Acrylonitrile	44.0		"	50.0	0.00	87.9	13-161		13.9	48	
Benzene	44.4		"	50.0	0.00	88.9	43-139		7.25	64	
Bromochloromethane	39.6		"	50.0	0.00	79.2	38-145		1.71	30	
Bromodichloromethane	43.0		"	50.0	0.00	85.9	38-147		3.97	37	
Bromoform	51.4		"	50.0	0.00	103	29-156		7.13	51	
Bromomethane	64.8		"	50.0	0.00	130	10-166		11.7	42	
Carbon disulfide	44.4		"	50.0	0.00	88.9	10-131		7.13	36	
Carbon tetrachloride	36.6		"	50.0	0.00	73.2	35-145		10.6	31	
Chlorobenzene	44.4		"	50.0	0.00	88.8	21-154		6.51	32	
Chloroethane	49.4		"	50.0	0.00	98.7	15-160		7.68	40	
Chloroform	41.5		"	50.0	0.00	83.1	47-142		6.82	29	
Chloromethane	46.3		"	50.0	0.00	92.6	10-159		2.45	31	
cis-1,2-Dichloroethylene	39.1		"	50.0	0.00	78.2	42-144		5.38	30	
cis-1,3-Dichloropropylene	44.8		"	50.0	0.00	89.5	18-159		4.43	39	
Cyclohexane	33.0		"	50.0	0.00	66.1	70-130	Low Bias	9.64	30	
Dibromochloromethane	50.5		"	50.0	0.00	101	10-179		3.10	41	
Dibromomethane	44.5		"	50.0	0.00	89.0	47-143		3.68	41	
Dichlorodifluoromethane	55.6		"	50.0	0.00	111	10-145		9.78	34	
Ethyl Benzene	42.3		"	50.0	0.00	84.6	11-158		7.91	42	
Hexachlorobutadiene	36.2		"	50.0	0.00	72.4	10-158		2.12	45	
Isopropylbenzene	40.4		"	50.0	0.00	80.7	10-162		5.89	57	
Methyl acetate	48.6		"	50.0	0.00	97.3	10-149		13.8	64	
Methyl tert-butyl ether (MTBE)	35.1		"	50.0	0.00	70.2	42-152		8.72	47	
Methylcyclohexane	43.0		"	50.0	0.00	85.9	70-130		9.44	30	
Methylene chloride	41.2		"	50.0	0.00	82.5	28-151		5.58	49	
n-Butylbenzene	42.1		"	50.0	0.00	84.1	10-162		5.65	96	



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit							Units	Level
Batch BG11323 - EPA 5035A										
Matrix Spike Dup (BG11323-1) Matrix Spike Dup						Source sample: 21G1096-04 (414_EP07_8.5)				
						Prepared & Analyzed: 07/23/2021				
n-Propylbenzene	39.4		ug/L	50.0	0.00	78.8	10-155		7.73	56
o-Xylene	43.3		"	50.0	0.00	86.5	10-158		5.68	51
p- & m- Xylenes	82.5		"	100	0.00	82.5	10-156		6.74	47
p-Isopropyltoluene	40.4		"	50.0	0.00	80.7	10-147		7.19	60
sec-Butylbenzene	41.0		"	50.0	0.00	82.0	10-157		6.23	56
Styrene	45.5		"	50.0	0.00	91.1	13-171		5.97	39
tert-Butyl alcohol (TBA)	162		"	250	0.00	65.0	34-179		13.2	35
tert-Butylbenzene	36.1		"	50.0	0.00	72.2	10-160		6.43	79
Tetrachloroethylene	38.5		"	50.0	0.00	77.0	30-167		7.94	33
Toluene	42.8		"	50.0	0.00	85.7	21-160		5.69	50
trans-1,2-Dichloroethylene	40.8		"	50.0	0.00	81.7	29-153		6.76	30
trans-1,3-Dichloropropylene	46.0		"	50.0	0.00	92.0	18-155		4.58	30
Trichloroethylene	45.1		"	50.0	0.00	90.2	24-169		18.3	30
Trichlorofluoromethane	44.5		"	50.0	0.00	89.0	35-142		9.61	30
Vinyl Chloride	49.9		"	50.0	0.00	99.8	12-160		6.90	35
Surrogate: SURR: 1,2-Dichloroethane-d4	47.6		"	50.0		95.1	77-125			
Surrogate: SURR: Toluene-d8	50.3		"	50.0		101	85-120			
Surrogate: SURR: p-Bromofluorobenzene	47.0		"	50.0		94.0	76-130			

Batch BG11334 - EPA 5035A

Blank (BG11334-BLK1)	Blank	Prepared & Analyzed: 07/23/2021								
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	"							
1,1,2,2-Tetrachloroethane	ND	0.0050	"							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"							
1,1,2-Trichloroethane	ND	0.0050	"							
1,1-Dichloroethane	ND	0.0050	"							
1,1-Dichloroethylene	ND	0.0050	"							
1,2,3-Trichlorobenzene	ND	0.0050	"							
1,2,3-Trichloropropane	ND	0.0050	"							
1,2,4-Trichlorobenzene	ND	0.0050	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,2-Dibromo-3-chloropropane	ND	0.0050	"							
1,2-Dibromoethane	ND	0.0050	"							
1,2-Dichlorobenzene	ND	0.0050	"							
1,2-Dichloroethane	ND	0.0050	"							
1,2-Dichloropropane	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
1,3-Dichlorobenzene	ND	0.0050	"							
1,4-Dichlorobenzene	ND	0.0050	"							
1,4-Dioxane	ND	0.10	"							
2-Butanone	ND	0.0050	"							
2-Hexanone	ND	0.0050	"							
4-Methyl-2-pentanone	ND	0.0050	"							
Acetone	ND	0.010	"							
Acrolein	ND	0.010	"							
Acrylonitrile	ND	0.0050	"							
Benzene	ND	0.0050	"							
Bromochloromethane	ND	0.0050	"							
Bromodichloromethane	ND	0.0050	"							



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11334 - EPA 5035A

Blank (BG11334-BLK1) Blank Prepared & Analyzed: 07/23/2021

Bromoform	ND	0.0050	mg/kg wet								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								

Surrogate: SURRE: 1,2-Dichloroethane-d4	55.6		ug/L	50.0		111	77-125				
Surrogate: SURRE: Toluene-d8	50.0		"	50.0		100	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	51.4		"	50.0		103	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11334 - EPA 5035A

Blank (BG11334-BLK2)	HOLDING BLANK-21G1096										Prepared & Analyzed: 07/23/2021
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11334 - EPA 5035A

Blank (BG11334-BLK2)	HOLDING BLANK-21G1096			Prepared & Analyzed: 07/23/2021							
n-Propylbenzene	ND	0.0050	mg/kg wet								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	53.6		ug/L	50.0		107	77-125				
Surrogate: SURR: Toluene-d8	50.0		"	50.0		99.9	85-120				
Surrogate: SURR: p-Bromofluorobenzene	52.0		"	50.0		104	76-130				

Blank (BG11334-BLK3)	HOLDING BLANK-21G1094			Prepared & Analyzed: 07/23/2021							
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								Level	

Batch BG11334 - EPA 5035A

Blank (BG11334-BLK3)	HOLDING BLANK-21G1094		Prepared & Analyzed: 07/23/2021								
Bromomethane	ND	0.0050	mg/kg wet								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
<i>Surrogate: SURRE: 1,2-Dichloroethane-d4</i>	54.6		ug/L	50.0		109		77-125			
<i>Surrogate: SURRE: Toluene-d8</i>	49.5		"	50.0		99.0		85-120			
<i>Surrogate: SURRE: p-Bromofluorobenzene</i>	51.8		"	50.0		104		76-130			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11334 - EPA 5035A

Blank (BG11334-BLK4)

HOLDING BLANK-21G1071

Prepared & Analyzed: 07/23/2021

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Limit	Flag
		Limit			Result				Limit			
Batch BG11334 - EPA 5035A												
Blank (BG11334-BLK4)	HOLDING BLANK-21G1071							Prepared & Analyzed: 07/23/2021				
n-Propylbenzene	ND	0.0050	mg/kg wet									
o-Xylene	ND	0.0050	"									
p- & m- Xylenes	ND	0.010	"									
p-Isopropyltoluene	ND	0.0050	"									
sec-Butylbenzene	ND	0.0050	"									
Styrene	ND	0.0050	"									
tert-Butyl alcohol (TBA)	ND	0.0050	"									
tert-Butylbenzene	ND	0.0050	"									
Tetrachloroethylene	ND	0.0050	"									
Toluene	ND	0.0050	"									
trans-1,2-Dichloroethylene	ND	0.0050	"									
trans-1,3-Dichloropropylene	ND	0.0050	"									
Trichloroethylene	ND	0.0050	"									
Trichlorofluoromethane	ND	0.0050	"									
Vinyl Chloride	ND	0.0050	"									
Xylenes, Total	ND	0.015	"									
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	55.3		ug/L	50.0	111	77-125						
<i>Surrogate: SURR: Toluene-d8</i>	50.3		"	50.0	101	85-120						
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	51.9		"	50.0	104	76-130						
LCS (BG11334-BS1)	LCS							Prepared & Analyzed: 07/23/2021				
1,1,1,2-Tetrachloroethane	66.4		ug/L	50.0	133	75-129	High Bias					
1,1,1-Trichloroethane	67.8		"	50.0	136	71-137						
1,1,2,2-Tetrachloroethane	53.4		"	50.0	107	79-129						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53.7		"	50.0	107	58-146						
1,1,2-Trichloroethane	53.7		"	50.0	107	83-123						
1,1-Dichloroethane	50.9		"	50.0	102	75-130						
1,1-Dichloroethylene	51.3		"	50.0	103	64-137						
1,2,3-Trichlorobenzene	60.0		"	50.0	120	81-140						
1,2,3-Trichloropropane	61.0		"	50.0	122	81-126						
1,2,4-Trichlorobenzene	60.8		"	50.0	122	80-141						
1,2,4-Trimethylbenzene	59.1		"	50.0	118	84-125						
1,2-Dibromo-3-chloropropane	68.8		"	50.0	138	74-142						
1,2-Dibromoethane	59.1		"	50.0	118	86-123						
1,2-Dichlorobenzene	58.0		"	50.0	116	85-122						
1,2-Dichloroethane	57.6		"	50.0	115	71-133						
1,2-Dichloropropane	49.6		"	50.0	99.2	81-122						
1,3,5-Trimethylbenzene	61.1		"	50.0	122	82-126						
1,3-Dichlorobenzene	57.5		"	50.0	115	84-124						
1,4-Dichlorobenzene	57.6		"	50.0	115	84-124						
1,4-Dioxane	1190		"	1050	113	10-228						
2-Butanone	49.4		"	50.0	98.8	58-147						
2-Hexanone	49.1		"	50.0	98.2	70-139						
4-Methyl-2-pentanone	48.0		"	50.0	95.9	72-132						
Acetone	40.0		"	50.0	80.0	36-155						
Acrolein	30.8		"	50.0	61.6	10-238						
Acrylonitrile	48.3		"	50.0	96.6	66-141						
Benzene	49.8		"	50.0	99.5	77-127						
Bromochloromethane	45.6		"	50.0	91.2	74-129						
Bromodichloromethane	64.7		"	50.0	129	81-124	High Bias					
Bromoform	63.2		"	50.0	126	80-136						



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			
Batch BG11334 - EPA 5035A													
LCS (BG11334-BS1)	LCS	Prepared & Analyzed: 07/23/2021											
Bromomethane	64.7		ug/L	50.0		129	32-177						
Carbon disulfide	66.2		"	50.0		132	10-136						
Carbon tetrachloride	65.9		"	50.0		132	66-143						
Chlorobenzene	55.5		"	50.0		111	86-120						
Chloroethane	43.2		"	50.0		86.3	51-142						
Chloroform	59.9		"	50.0		120	76-131						
Chloromethane	44.6		"	50.0		89.1	49-132						
cis-1,2-Dichloroethylene	53.6		"	50.0		107	74-132						
cis-1,3-Dichloropropylene	58.0		"	50.0		116	81-129						
Cyclohexane	45.0		"	50.0		90.0	70-130						
Dibromochloromethane	61.5		"	50.0		123	10-200						
Dibromomethane	55.3		"	50.0		111	83-124						
Dichlorodifluoromethane	53.8		"	50.0		108	28-158						
Ethyl Benzene	56.0		"	50.0		112	84-125						
Hexachlorobutadiene	73.6		"	50.0		147	83-133	High Bias					
Isopropylbenzene	59.2		"	50.0		118	81-127						
Methyl acetate	40.8		"	50.0		81.7	41-143						
Methyl tert-butyl ether (MTBE)	55.9		"	50.0		112	74-131						
Methylcyclohexane	52.2		"	50.0		104	70-130						
Methylene chloride	46.8		"	50.0		93.5	57-141						
n-Butylbenzene	61.8		"	50.0		124	80-130						
n-Propylbenzene	53.9		"	50.0		108	74-136						
o-Xylene	56.6		"	50.0		113	83-123						
p- & m- Xylenes	114		"	100		114	82-128						
p-Isopropyltoluene	60.6		"	50.0		121	85-125						
sec-Butylbenzene	61.1		"	50.0		122	83-125						
Styrene	56.4		"	50.0		113	86-126						
tert-Butyl alcohol (TBA)	362		"	250		145	70-130	High Bias					
tert-Butylbenzene	61.9		"	50.0		124	80-127						
Tetrachloroethylene	59.3		"	50.0		119	80-129						
Toluene	54.3		"	50.0		109	85-121						
trans-1,2-Dichloroethylene	56.6		"	50.0		113	72-132						
trans-1,3-Dichloropropylene	55.5		"	50.0		111	78-132						
Trichloroethylene	60.2		"	50.0		120	84-123						
Trichlorofluoromethane	53.1		"	50.0		106	62-140						
Vinyl Chloride	50.8		"	50.0		102	52-130						
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>54.9</i>		<i>"</i>	<i>50.0</i>		<i>110</i>	<i>77-125</i>						
<i>Surrogate: SURR: Toluene-d8</i>	<i>50.6</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>85-120</i>						
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>50.8</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>76-130</i>						



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11401 - EPA 5035A

Blank (BG11401-BLK1)	Blank										
											Prepared & Analyzed: 07/26/2021
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								Level	

Batch BG11401 - EPA 5035A

Blank (BG11401-BLK1)		Blank		Prepared & Analyzed: 07/26/2021								
n-Propylbenzene	ND	0.0050	mg/kg wet									
o-Xylene	ND	0.0050	"									
p- & m- Xylenes	ND	0.010	"									
p-Isopropyltoluene	ND	0.0050	"									
sec-Butylbenzene	ND	0.0050	"									
Styrene	ND	0.0050	"									
tert-Butyl alcohol (TBA)	ND	0.0050	"									
tert-Butylbenzene	ND	0.0050	"									
Tetrachloroethylene	ND	0.0050	"									
Toluene	ND	0.0050	"									
trans-1,2-Dichloroethylene	ND	0.0050	"									
trans-1,3-Dichloropropylene	ND	0.0050	"									
Trichloroethylene	ND	0.0050	"									
Trichlorofluoromethane	ND	0.0050	"									
Vinyl Chloride	ND	0.0050	"									
Xylenes, Total	ND	0.015	"									
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>		<i>47.9</i>	<i>ug/L</i>	<i>50.0</i>	<i>95.7</i>	<i>77-125</i>						
<i>Surrogate: SURR: Toluene-d8</i>		<i>50.9</i>	<i>"</i>	<i>50.0</i>	<i>102</i>	<i>85-120</i>						
<i>Surrogate: SURR: p-Bromofluorobenzene</i>		<i>45.7</i>	<i>"</i>	<i>50.0</i>	<i>91.3</i>	<i>76-130</i>						

Blank (BG11401-BLK2)		Holding Blank- 21G1150		Prepared & Analyzed: 07/26/2021								
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet									
1,1,1-Trichloroethane	ND	0.0050	"									
1,1,2,2-Tetrachloroethane	ND	0.0050	"									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"									
1,1,2-Trichloroethane	ND	0.0050	"									
1,1-Dichloroethane	ND	0.0050	"									
1,1-Dichloroethylene	ND	0.0050	"									
1,2,3-Trichlorobenzene	ND	0.0050	"									
1,2,3-Trichloropropane	ND	0.0050	"									
1,2,4-Trichlorobenzene	ND	0.0050	"									
1,2,4-Trimethylbenzene	ND	0.0050	"									
1,2-Dibromo-3-chloropropane	ND	0.0050	"									
1,2-Dibromoethane	ND	0.0050	"									
1,2-Dichlorobenzene	ND	0.0050	"									
1,2-Dichloroethane	ND	0.0050	"									
1,2-Dichloropropane	ND	0.0050	"									
1,3,5-Trimethylbenzene	ND	0.0050	"									
1,3-Dichlorobenzene	ND	0.0050	"									
1,4-Dichlorobenzene	ND	0.0050	"									
1,4-Dioxane	ND	0.10	"									
2-Butanone	ND	0.0050	"									
2-Hexanone	ND	0.0050	"									
4-Methyl-2-pentanone	ND	0.0050	"									
Acetone	ND	0.010	"									
Acrolein	ND	0.010	"									
Acrylonitrile	ND	0.0050	"									
Benzene	ND	0.0050	"									
Bromochloromethane	ND	0.0050	"									
Bromodichloromethane	ND	0.0050	"									
Bromoform	ND	0.0050	"									



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11401 - EPA 5035A

Blank (BG11401-BLK2)	Holding Blank- 21G1150	Prepared & Analyzed: 07/26/2021									
Bromomethane	ND	0.0050	mg/kg wet								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
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Surrogate: SURRE: 1,2-Dichloroethane-d4	47.8		ug/L	50.0		95.6	77-125				
Surrogate: SURRE: Toluene-d8	50.4		"	50.0		101	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	45.7		"	50.0		91.5	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11401 - EPA 5035A

LCS (BG11401-BS1)	LCS										
											Prepared & Analyzed: 07/26/2021
1,1,1,2-Tetrachloroethane	55.8		ug/L	50.0		112	75-129				
1,1,1-Trichloroethane	46.3		"	50.0		92.5	71-137				
1,1,2,2-Tetrachloroethane	62.0		"	50.0		124	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	56.4		"	50.0		113	58-146				
1,1,2-Trichloroethane	56.9		"	50.0		114	83-123				
1,1-Dichloroethane	46.0		"	50.0		92.0	75-130				
1,1-Dichloroethylene	44.9		"	50.0		89.8	64-137				
1,2,3-Trichlorobenzene	54.6		"	50.0		109	81-140				
1,2,3-Trichloropropane	54.4		"	50.0		109	81-126				
1,2,4-Trichlorobenzene	55.7		"	50.0		111	80-141				
1,2,4-Trimethylbenzene	50.2		"	50.0		100	84-125				
1,2-Dibromo-3-chloropropane	48.4		"	50.0		96.9	74-142				
1,2-Dibromoethane	57.1		"	50.0		114	86-123				
1,2-Dichlorobenzene	54.0		"	50.0		108	85-122				
1,2-Dichloroethane	46.7		"	50.0		93.4	71-133				
1,2-Dichloropropane	52.4		"	50.0		105	81-122				
1,3,5-Trimethylbenzene	59.1		"	50.0		118	82-126				
1,3-Dichlorobenzene	53.1		"	50.0		106	84-124				
1,4-Dichlorobenzene	53.0		"	50.0		106	84-124				
1,4-Dioxane	1080		"	1050		103	10-228				
2-Butanone	37.1		"	50.0		74.3	58-147				
2-Hexanone	45.6		"	50.0		91.2	70-139				
4-Methyl-2-pentanone	47.1		"	50.0		94.2	72-132				
Acetone	28.6		"	50.0		57.3	36-155				
Acrolein	34.2		"	50.0		68.4	10-238				
Acrylonitrile	51.3		"	50.0		103	66-141				
Benzene	51.5		"	50.0		103	77-127				
Bromochloromethane	47.0		"	50.0		94.1	74-129				
Bromodichloromethane	51.3		"	50.0		103	81-124				
Bromoform	59.2		"	50.0		118	80-136				
Bromomethane	75.1		"	50.0		150	32-177				
Carbon disulfide	53.6		"	50.0		107	10-136				
Carbon tetrachloride	45.6		"	50.0		91.1	66-143				
Chlorobenzene	53.0		"	50.0		106	86-120				
Chloroethane	55.4		"	50.0		111	51-142				
Chloroform	48.5		"	50.0		97.1	76-131				
Chloromethane	55.0		"	50.0		110	49-132				
cis-1,2-Dichloroethylene	46.6		"	50.0		93.2	74-132				
cis-1,3-Dichloropropylene	53.9		"	50.0		108	81-129				
Cyclohexane	38.0		"	50.0		76.0	70-130				
Dibromochloromethane	60.2		"	50.0		120	10-200				
Dibromomethane	52.2		"	50.0		104	83-124				
Dichlorodifluoromethane	67.2		"	50.0		134	28-158				
Ethyl Benzene	50.1		"	50.0		100	84-125				
Hexachlorobutadiene	49.3		"	50.0		98.5	83-133				
Isopropylbenzene	47.0		"	50.0		94.0	81-127				
Methyl acetate	46.3		"	50.0		92.5	41-143				
Methyl tert-butyl ether (MTBE)	43.0		"	50.0		86.1	74-131				
Methylcyclohexane	51.1		"	50.0		102	70-130				
Methylene chloride	47.7		"	50.0		95.4	57-141				
n-Butylbenzene	46.9		"	50.0		93.9	80-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG11401 - EPA 5035A											
LCS (BG11401-BS1)	LCS										Prepared & Analyzed: 07/26/2021
n-Propylbenzene	46.4		ug/L	50.0		92.7	74-136				
o-Xylene	51.0		"	50.0		102	83-123				
p- & m- Xylenes	99.4		"	100		99.4	82-128				
p-Isopropyltoluene	48.3		"	50.0		96.5	85-125				
sec-Butylbenzene	48.5		"	50.0		97.1	83-125				
Styrene	55.6		"	50.0		111	86-126				
tert-Butyl alcohol (TBA)	188		"	250		75.2	70-130				
tert-Butylbenzene	42.1		"	50.0		84.3	80-127				
Tetrachloroethylene	46.7		"	50.0		93.3	80-129				
Toluene	51.2		"	50.0		102	85-121				
trans-1,2-Dichloroethylene	48.3		"	50.0		96.6	72-132				
trans-1,3-Dichloropropylene	55.0		"	50.0		110	78-132				
Trichloroethylene	46.6		"	50.0		93.3	84-123				
Trichlorofluoromethane	50.4		"	50.0		101	62-140				
Vinyl Chloride	58.0		"	50.0		116	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	46.3		"	50.0		92.6	77-125				
Surrogate: SURR: Toluene-d8	50.8		"	50.0		102	85-120				
Surrogate: SURR: p-Bromofluorobenzene	45.7		"	50.0		91.4	76-130				
LCS Dup (BG11401-BS1)	LCS Dup										Prepared & Analyzed: 07/26/2021
1,1,1,2-Tetrachloroethane	55.4		ug/L	50.0		111	75-129		0.755	30	
1,1,1-Trichloroethane	40.1		"	50.0		80.1	71-137		14.4	30	
1,1,2,2-Tetrachloroethane	62.1		"	50.0		124	79-129		0.145	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55.9		"	50.0		112	58-146		0.820	30	
1,1,2-Trichloroethane	57.1		"	50.0		114	83-123		0.351	30	
1,1-Dichloroethane	45.8		"	50.0		91.6	75-130		0.436	30	
1,1-Dichloroethylene	48.5		"	50.0		97.0	64-137		7.65	30	
1,2,3-Trichlorobenzene	55.8		"	50.0		112	81-140		2.25	30	
1,2,3-Trichloropropane	55.1		"	50.0		110	81-126		1.22	30	
1,2,4-Trichlorobenzene	55.4		"	50.0		111	80-141		0.558	30	
1,2,4-Trimethylbenzene	50.9		"	50.0		102	84-125		1.40	30	
1,2-Dibromo-3-chloropropane	49.1		"	50.0		98.2	74-142		1.33	30	
1,2-Dibromoethane	57.0		"	50.0		114	86-123		0.158	30	
1,2-Dichlorobenzene	54.8		"	50.0		110	85-122		1.43	30	
1,2-Dichloroethane	47.1		"	50.0		94.2	71-133		0.789	30	
1,2-Dichloropropane	50.9		"	50.0		102	81-122		2.92	30	
1,3,5-Trimethylbenzene	59.8		"	50.0		120	82-126		1.21	30	
1,3-Dichlorobenzene	53.4		"	50.0		107	84-124		0.601	30	
1,4-Dichlorobenzene	53.8		"	50.0		108	84-124		1.50	30	
1,4-Dioxane	1040		"	1050		99.4	10-228		3.42	30	
2-Butanone	35.6		"	50.0		71.2	58-147		4.21	30	
2-Hexanone	45.0		"	50.0		89.9	70-139		1.44	30	
4-Methyl-2-pentanone	46.5		"	50.0		93.1	72-132		1.20	30	
Acetone	27.0		"	50.0		54.0	36-155		5.93	30	
Acrolein	34.3		"	50.0		68.6	10-238		0.263	30	
Acrylonitrile	50.4		"	50.0		101	66-141		1.63	30	
Benzene	52.0		"	50.0		104	77-127		1.00	30	
Bromochloromethane	46.9		"	50.0		93.7	74-129		0.405	30	
Bromodichloromethane	50.6		"	50.0		101	81-124		1.33	30	
Bromoform	60.0		"	50.0		120	80-136		1.26	30	
Bromomethane	73.2		"	50.0		146	32-177		2.59	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	
		Limit			Result				RPD	Limit
Batch BG11401 - EPA 5035A										
LCS Dup (BG11401-bsd1)	LCS Dup	Prepared & Analyzed: 07/26/2021								
Carbon disulfide	53.6		ug/L	50.0		107	10-136		0.168	30
Carbon tetrachloride	43.5		"	50.0		87.0	66-143		4.63	30
Chlorobenzene	52.9		"	50.0		106	86-120		0.264	30
Chloroethane	54.7		"	50.0		109	51-142		1.25	30
Chloroform	49.0		"	50.0		98.1	76-131		1.00	30
Chloromethane	53.6		"	50.0		107	49-132		2.61	30
cis-1,2-Dichloroethylene	46.4		"	50.0		92.8	74-132		0.430	30
cis-1,3-Dichloropropylene	53.3		"	50.0		107	81-129		1.12	30
Cyclohexane	37.4		"	50.0		74.7	70-130		1.70	30
Dibromochloromethane	60.6		"	50.0		121	10-200		0.745	30
Dibromomethane	51.6		"	50.0		103	83-124		1.14	30
Dichlorodifluoromethane	67.3		"	50.0		135	28-158		0.193	30
Ethyl Benzene	49.9		"	50.0		99.8	84-125		0.360	30
Hexachlorobutadiene	51.3		"	50.0		103	83-133		4.10	30
Isopropylbenzene	47.5		"	50.0		94.9	81-127		0.974	30
Methyl acetate	45.8		"	50.0		91.6	41-143		0.999	30
Methyl tert-butyl ether (MTBE)	42.2		"	50.0		84.5	74-131		1.88	30
Methylcyclohexane	49.3		"	50.0		98.5	70-130		3.63	30
Methylene chloride	47.6		"	50.0		95.2	57-141		0.273	30
n-Butylbenzene	46.0		"	50.0		91.9	80-130		2.11	30
n-Propylbenzene	47.0		"	50.0		93.9	74-136		1.29	30
o-Xylene	51.6		"	50.0		103	83-123		1.17	30
p- & m- Xylenes	99.0		"	100		99.0	82-128		0.363	30
p-Isopropyltoluene	49.3		"	50.0		98.5	85-125		2.05	30
sec-Butylbenzene	49.5		"	50.0		99.0	83-125		1.96	30
Styrene	55.3		"	50.0		111	86-126		0.415	30
tert-Butyl alcohol (TBA)	195		"	250		77.9	70-130		3.45	30
tert-Butylbenzene	43.1		"	50.0		86.2	80-127		2.30	30
Tetrachloroethylene	45.7		"	50.0		91.4	80-129		2.10	30
Toluene	50.5		"	50.0		101	85-121		1.38	30
trans-1,2-Dichloroethylene	47.9		"	50.0		95.8	72-132		0.894	30
trans-1,3-Dichloropropylene	54.0		"	50.0		108	78-132		1.96	30
Trichloroethylene	46.3		"	50.0		92.6	84-123		0.710	30
Trichlorofluoromethane	50.0		"	50.0		100	62-140		0.697	30
Vinyl Chloride	56.9		"	50.0		114	52-130		1.90	30
Surrogate: SURR: 1,2-Dichloroethane-d4	46.6		"	50.0		93.3	77-125			
Surrogate: SURR: Toluene-d8	50.6		"	50.0		101	85-120			
Surrogate: SURR: p-Bromofluorobenzene	46.4		"	50.0		92.9	76-130			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11409 - EPA 5030B

Blank (BG11409-BLK1)	Blank	Prepared & Analyzed: 07/26/2021									
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11409 - EPA 5030B

Blank (BG11409-BLK1)	Blank	Prepared & Analyzed: 07/26/2021									
n-Propylbenzene	ND	0.500	ug/L								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
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Surrogate: SURRE: 1,2-Dichloroethane-d4	10.1		"	10.0		101	69-130				
Surrogate: SURRE: Toluene-d8	10.3		"	10.0		103	81-117				
Surrogate: SURRE: p-Bromofluorobenzene	10.2		"	10.0		102	79-122				

LCS (BG11409-BS1)	LCS	Prepared & Analyzed: 07/26/2021									
1,1,1,2-Tetrachloroethane	10.7		ug/L	10.0		107	82-126				
1,1,1-Trichloroethane	9.44		"	10.0		94.4	78-136				
1,1,2,2-Tetrachloroethane	11.3		"	10.0		113	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8		"	10.0		108	54-165				
1,1,2-Trichloroethane	10.2		"	10.0		102	82-123				
1,1-Dichloroethane	10.1		"	10.0		101	82-129				
1,1-Dichloroethylene	10.8		"	10.0		108	68-138				
1,2,3-Trichlorobenzene	9.41		"	10.0		94.1	76-136				
1,2,3-Trichloropropane	11.0		"	10.0		110	77-128				
1,2,4-Trichlorobenzene	9.89		"	10.0		98.9	76-137				
1,2,4-Trimethylbenzene	12.2		"	10.0		122	82-132				
1,2-Dibromo-3-chloropropane	10.1		"	10.0		101	45-147				
1,2-Dibromoethane	10.2		"	10.0		102	83-124				
1,2-Dichlorobenzene	11.1		"	10.0		111	79-123				
1,2-Dichloroethane	9.65		"	10.0		96.5	73-132				
1,2-Dichloropropane	11.5		"	10.0		115	78-126				
1,3,5-Trimethylbenzene	12.3		"	10.0		123	80-131				
1,3-Dichlorobenzene	11.1		"	10.0		111	86-122				
1,4-Dichlorobenzene	11.2		"	10.0		112	85-124				
1,4-Dioxane	220		"	210		105	10-349				
2-Butanone	9.09		"	10.0		90.9	49-152				
2-Hexanone	11.2		"	10.0		112	51-146				
4-Methyl-2-pentanone	10.8		"	10.0		108	57-145				
Acetone	7.66		"	10.0		76.6	14-150				
Acrolein	4.42		"	10.0		44.2	10-153				
Acrylonitrile	10.4		"	10.0		104	51-150				
Benzene	10.3		"	10.0		103	85-126				
Bromochloromethane	10.8		"	10.0		108	77-128				
Bromodichloromethane	10.5		"	10.0		105	79-128				
Bromoform	10.1		"	10.0		101	78-133				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11409 - EPA 5030B

LCS (BG11409-BS1)	LCS	Prepared & Analyzed: 07/26/2021									
Bromomethane	7.35		ug/L	10.0		73.5	43-168				
Carbon disulfide	11.4		"	10.0		114	68-146				
Carbon tetrachloride	9.64		"	10.0		96.4	77-141				
Chlorobenzene	10.9		"	10.0		109	88-120				
Chloroethane	10.5		"	10.0		105	65-136				
Chloroform	9.72		"	10.0		97.2	82-128				
Chloromethane	10.2		"	10.0		102	43-155				
cis-1,2-Dichloroethylene	10.5		"	10.0		105	83-129				
cis-1,3-Dichloropropylene	10.8		"	10.0		108	80-131				
Cyclohexane	8.04		"	10.0		80.4	63-149				
Dibromochloromethane	10.5		"	10.0		105	80-130				
Dibromomethane	10.3		"	10.0		103	72-134				
Dichlorodifluoromethane	12.0		"	10.0		120	44-144				
Ethyl Benzene	11.6		"	10.0		116	80-131				
Hexachlorobutadiene	14.4		"	10.0		144	67-146				
Isopropylbenzene	11.9		"	10.0		119	76-140				
Methyl acetate	9.45		"	10.0		94.5	51-139				
Methyl tert-butyl ether (MTBE)	9.82		"	10.0		98.2	76-135				
Methylcyclohexane	11.1		"	10.0		111	72-143				
Methylene chloride	11.6		"	10.0		116	55-137				
n-Butylbenzene	12.6		"	10.0		126	79-132				
n-Propylbenzene	12.2		"	10.0		122	78-133				
o-Xylene	11.4		"	10.0		114	78-130				
p- & m- Xylenes	23.9		"	20.0		119	77-133				
p-Isopropyltoluene	11.9		"	10.0		119	81-136				
sec-Butylbenzene	12.3		"	10.0		123	79-137				
Styrene	11.4		"	10.0		114	67-132				
tert-Butyl alcohol (TBA)	41.9		"	50.0		83.8	25-162				
tert-Butylbenzene	9.84		"	10.0		98.4	77-138				
Tetrachloroethylene	9.43		"	10.0		94.3	82-131				
Toluene	11.2		"	10.0		112	80-127				
trans-1,2-Dichloroethylene	11.0		"	10.0		110	80-132				
trans-1,3-Dichloropropylene	10.8		"	10.0		108	78-131				
Trichloroethylene	10.7		"	10.0		107	82-128				
Trichlorofluoromethane	10.2		"	10.0		102	67-139				
Vinyl Chloride	10.7		"	10.0		107	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	9.58		"	10.0		95.8	69-130				
Surrogate: SURR: Toluene-d8	10.4		"	10.0		104	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.8		"	10.0		108	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG11409 - EPA 5030B											
LCS Dup (BG11409-BSD1)	LCS Dup	Prepared & Analyzed: 07/26/2021									
1,1,1,2-Tetrachloroethane	10.6		ug/L	10.0		106	82-126		1.12	30	
1,1,1-Trichloroethane	9.20		"	10.0		92.0	78-136		2.58	30	
1,1,2,2-Tetrachloroethane	11.5		"	10.0		115	76-129		2.02	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.3		"	10.0		103	54-165		3.89	30	
1,1,2-Trichloroethane	10.6		"	10.0		106	82-123		3.27	30	
1,1-Dichloroethane	9.86		"	10.0		98.6	82-129		2.50	30	
1,1-Dichloroethylene	10.3		"	10.0		103	68-138		4.17	30	
1,2,3-Trichlorobenzene	9.69		"	10.0		96.9	76-136		2.93	30	
1,2,3-Trichloropropane	11.0		"	10.0		110	77-128		0.0909	30	
1,2,4-Trichlorobenzene	10.0		"	10.0		100	76-137		1.31	30	
1,2,4-Trimethylbenzene	11.6		"	10.0		116	82-132		5.31	30	
1,2-Dibromo-3-chloropropane	9.78		"	10.0		97.8	45-147		3.22	30	
1,2-Dibromoethane	10.6		"	10.0		106	83-124		3.94	30	
1,2-Dichlorobenzene	10.9		"	10.0		109	79-123		2.09	30	
1,2-Dichloroethane	9.77		"	10.0		97.7	73-132		1.24	30	
1,2-Dichloropropane	11.3		"	10.0		113	78-126		1.76	30	
1,3,5-Trimethylbenzene	11.6		"	10.0		116	80-131		5.35	30	
1,3-Dichlorobenzene	10.7		"	10.0		107	86-122		3.40	30	
1,4-Dichlorobenzene	10.7		"	10.0		107	85-124		4.03	30	
1,4-Dioxane	227		"	210		108	10-349		3.13	30	
2-Butanone	9.59		"	10.0		95.9	49-152		5.35	30	
2-Hexanone	11.9		"	10.0		119	51-146		5.99	30	
4-Methyl-2-pentanone	11.7		"	10.0		117	57-145		7.37	30	
Acetone	8.22		"	10.0		82.2	14-150		7.05	30	
Acrolein	4.97		"	10.0		49.7	10-153		11.7	30	
Acrylonitrile	11.0		"	10.0		110	51-150		6.36	30	
Benzene	10.1		"	10.0		101	85-126		2.55	30	
Bromochloromethane	11.0		"	10.0		110	77-128		1.92	30	
Bromodichloromethane	10.4		"	10.0		104	79-128		0.287	30	
Bromoform	10.7		"	10.0		107	78-133		5.96	30	
Bromomethane	6.94		"	10.0		69.4	43-168		5.74	30	
Carbon disulfide	10.9		"	10.0		109	68-146		4.30	30	
Carbon tetrachloride	9.34		"	10.0		93.4	77-141		3.16	30	
Chlorobenzene	10.6		"	10.0		106	88-120		2.23	30	
Chloroethane	10.1		"	10.0		101	65-136		4.07	30	
Chloroform	9.58		"	10.0		95.8	82-128		1.45	30	
Chloromethane	9.87		"	10.0		98.7	43-155		3.78	30	
cis-1,2-Dichloroethylene	10.2		"	10.0		102	83-129		2.71	30	
cis-1,3-Dichloropropylene	10.8		"	10.0		108	80-131		0.463	30	
Cyclohexane	7.88		"	10.0		78.8	63-149		2.01	30	
Dibromochloromethane	10.8		"	10.0		108	80-130		2.35	30	
Dibromomethane	10.4		"	10.0		104	72-134		1.16	30	
Dichlorodifluoromethane	11.5		"	10.0		115	44-144		4.52	30	
Ethyl Benzene	11.2		"	10.0		112	80-131		2.81	30	
Hexachlorobutadiene	14.6		"	10.0		146	67-146		1.10	30	
Isopropylbenzene	11.2		"	10.0		112	76-140		6.42	30	
Methyl acetate	10.1		"	10.0		101	51-139		6.35	30	
Methyl tert-butyl ether (MTBE)	10.2		"	10.0		102	76-135		3.30	30	
Methylcyclohexane	10.7		"	10.0		107	72-143		3.68	30	
Methylene chloride	11.6		"	10.0		116	55-137		0.173	30	
n-Butylbenzene	12.1		"	10.0		121	79-132		3.57	30	



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			
Batch BG11409 - EPA 5030B													
LCS Dup (BG11409-BSD1)	LCS Dup										Prepared & Analyzed: 07/26/2021		
n-Propylbenzene	11.4		ug/L	10.0		114	78-133			6.42		30	
o-Xylene	11.2		"	10.0		112	78-130			2.48		30	
p- & m- Xylenes	23.2		"	20.0		116	77-133			2.76		30	
p-Isopropyltoluene	11.4		"	10.0		114	81-136			4.56		30	
sec-Butylbenzene	11.8		"	10.0		118	79-137			4.81		30	
Styrene	11.3		"	10.0		113	67-132			1.50		30	
tert-Butyl alcohol (TBA)	47.7		"	50.0		95.4	25-162			13.0		30	
tert-Butylbenzene	9.33		"	10.0		93.3	77-138			5.32		30	
Tetrachloroethylene	9.07		"	10.0		90.7	82-131			3.89		30	
Toluene	10.9		"	10.0		109	80-127			2.44		30	
trans-1,2-Dichloroethylene	10.7		"	10.0		107	80-132			2.21		30	
trans-1,3-Dichloropropylene	10.9		"	10.0		109	78-131			1.02		30	
Trichloroethylene	10.3		"	10.0		103	82-128			3.44		30	
Trichlorofluoromethane	9.70		"	10.0		97.0	67-139			5.12		30	
Vinyl Chloride	10.3		"	10.0		103	58-145			3.82		30	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>9.79</i>		<i>"</i>	<i>10.0</i>		<i>97.9</i>	<i>69-130</i>						
<i>Surrogate: SURR: Toluene-d8</i>	<i>10.3</i>		<i>"</i>	<i>10.0</i>		<i>103</i>	<i>81-117</i>						
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>10.5</i>		<i>"</i>	<i>10.0</i>		<i>105</i>	<i>79-122</i>						



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11263 - EPA 3510C

Blank (BG11263-BLK1) Blank

Prepared: 07/23/2021 Analyzed: 07/26/2021

1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Diphenylamine	ND	5.00	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Isophorone	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Phenol	ND	5.00	"								
Pyridine	ND	5.00	"								



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11263 - EPA 3510C

Blank (BG11263-BLK1) Blank Prepared: 07/23/2021 Analyzed: 07/26/2021

Surrogate: SURR: 2-Fluorophenol	21.2		ug/L	50.0		42.4	19.7-63.1				
Surrogate: SURR: Phenol-d5	13.0		"	50.0		26.0	10.1-41.7				
Surrogate: SURR: Nitrobenzene-d5	20.1		"	25.0		80.4	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	18.1		"	25.0		72.5	39.9-105				
Surrogate: SURR: 2,4,6-Tribromophenol	42.4		"	50.0		84.8	39.3-151				
Surrogate: SURR: Terphenyl-d14	30.2		"	25.0		121	30.7-106				

Blank (BG11263-BLK2) Blank Prepared: 07/23/2021 Analyzed: 07/26/2021

1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acenaphthene	ND	0.0500	"								
Acenaphthylene	ND	0.0500	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11263 - EPA 3510C

Blank (BG11263-BLK2) Blank

Prepared: 07/23/2021 Analyzed: 07/26/2021

Bis(2-chloroethoxy)methane	ND	5.00	ug/L								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Diphenylamine	ND	5.00	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Isophorone	ND	5.00	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Phenol	ND	5.00	"								
Pyrene	ND	0.0500	"								
Pyridine	ND	5.00	"								
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Surrogate: SURR: 2-Fluorophenol	0.00		"	50.0			19.7-63.1				
Surrogate: SURR: Phenol-d5	0.00		"	50.0			10.1-41.7				
Surrogate: SURR: Nitrobenzene-d5	0.00		"	25.0			50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	0.00		"	25.0			39.9-105				
Surrogate: SURR: 2,4,6-Tribromophenol	0.00		"	50.0			39.3-151				
Surrogate: SURR: Terphenyl-d14	0.00		"	25.0			30.7-106				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG11263 - EPA 3510C											
LCS (BG11263-BS1)	LCS	Prepared: 07/23/2021 Analyzed: 07/26/2021									
1,1-Biphenyl	17.4	5.00	ug/L	25.0		69.4	33-95				
1,2,4,5-Tetrachlorobenzene	15.9	5.00	"	50.0		31.8	26-120				
1,2-Diphenylhydrazine (as Azobenzene)	23.5	5.00	"	25.0		94.1	16-141				
2,3,4,6-Tetrachlorophenol	27.4	5.00	"	25.0		110	30-130				
2,4,5-Trichlorophenol	17.4	5.00	"	25.0		69.7	32-114				
2,4,6-Trichlorophenol	16.4	5.00	"	25.0		65.5	35-118				
2,4-Dichlorophenol	16.2	5.00	"	25.0		64.7	25-116				
2,4-Dimethylphenol	16.9	5.00	"	25.0		67.6	15-116				
2,4-Dinitrophenol	17.7	5.00	"	25.0		70.6	10-170				
2,4-Dinitrotoluene	21.1	5.00	"	25.0		84.4	41-128				
2,6-Dinitrotoluene	19.8	5.00	"	25.0		79.2	45-116				
2-Chloronaphthalene	15.9	5.00	"	25.0		63.6	33-112				
2-Chlorophenol	14.1	5.00	"	25.0		56.5	15-120				
2-Methylnaphthalene	18.9	5.00	"	25.0		75.6	24-118				
2-Methylphenol	13.9	5.00	"	25.0		55.5	10-110				
2-Nitroaniline	19.2	5.00	"	25.0		77.0	34-129				
2-Nitrophenol	16.4	5.00	"	25.0		65.6	28-118				
3- & 4-Methylphenols	12.1	5.00	"	25.0		48.5	10-107				
3,3-Dichlorobenzidine	8.61	5.00	"	50.0		17.2	15-187				
3-Nitroaniline	19.0	5.00	"	25.0		75.9	24-134				
4,6-Dinitro-2-methylphenol	18.3	5.00	"	25.0		73.3	10-153				
4-Bromophenyl phenyl ether	17.5	5.00	"	25.0		70.0	34-120				
4-Chloro-3-methylphenol	19.1	5.00	"	25.0		76.5	20-120				
4-Chloroaniline	16.3	5.00	"	25.0		65.4	10-147				
4-Chlorophenyl phenyl ether	17.7	5.00	"	25.0		70.9	27-121				
4-Nitroaniline	19.6	5.00	"	25.0		78.6	13-134				
4-Nitrophenol	13.0	5.00	"	25.0		52.0	10-131				
Acetophenone	17.0	5.00	"	25.0		68.0	25-110				
Aniline	11.9	5.00	"	25.0		47.5	10-117				
Benzaldehyde	14.7	5.00	"	25.0		58.8	29-117				
Benzoic acid	8.95	5.00	"	25.0		35.8	30-130				
Benzyl alcohol	14.2	5.00	"	25.0		56.7	10-117				
Benzyl butyl phthalate	23.6	5.00	"	25.0		94.2	29-133				
Bis(2-chloroethoxy)methane	14.1	5.00	"	25.0		56.4	10-154				
Bis(2-chloroethyl)ether	14.8	5.00	"	25.0		59.1	17-125				
Bis(2-chloroisopropyl)ether	12.2	5.00	"	25.0		48.8	10-139				
Caprolactam	5.08	5.00	"	25.0		20.3	10-137				
Carbazole	20.0	5.00	"	25.0		80.0	42-126				
Dibenzofuran	18.1	5.00	"	25.0		72.4	36-113				
Diethyl phthalate	22.0	5.00	"	25.0		88.2	38-115				
Dimethyl phthalate	19.5	5.00	"	25.0		78.0	38-129				
Di-n-butyl phthalate	22.3	5.00	"	25.0		89.1	31-120				
Di-n-octyl phthalate	22.2	5.00	"	25.0		89.0	21-149				
Diphenylamine	22.8	5.00	"	25.0		91.2	40-140				
Hexachlorocyclopentadiene	12.6	10.0	"	25.0		50.6	10-130				
Isophorone	18.3	5.00	"	25.0		73.1	25-127				
N-nitroso-di-n-propylamine	16.5	5.00	"	25.0		66.1	26-122				
N-Nitrosodiphenylamine	23.6	5.00	"	25.0		94.4	23-149				
Phenol	7.60	5.00	"	25.0		30.4	10-110				
Pyridine	6.64	5.00	"	25.5		26.0	10-90				
Surrogate: SURR: 2-Fluorophenol	18.8		"	50.0		37.7	19.7-63.1				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11263 - EPA 3510C

LCS (BG11263-BS1)	LCS	Prepared: 07/23/2021 Analyzed: 07/26/2021									
Surrogate: SURR: Phenol-d5	12.8		ug/L	50.0		25.5	10.1-41.7				
Surrogate: SURR: Nitrobenzene-d5	18.9		"	25.0		75.6	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	17.6		"	25.0		70.2	39.9-105				
Surrogate: SURR: 2,4,6-Tribromophenol	43.4		"	50.0		86.7	39.3-151				
Surrogate: SURR: Terphenyl-d14	28.5		"	25.0		114	30.7-106				

LCS (BG11263-BS2)	LCS	Prepared: 07/23/2021 Analyzed: 07/26/2021									
1,1-Biphenyl	ND	5.00	ug/L				33-95				
1,2,4,5-Tetrachlorobenzene	ND	5.00	"				26-120				
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"	1.00			16-141	Low Bias			
2,3,4,6-Tetrachlorophenol	ND	5.00	"	1.00			30-130	Low Bias			
2,4,5-Trichlorophenol	ND	5.00	"	1.00			32-114	Low Bias			
2,4,6-Trichlorophenol	ND	5.00	"	1.00			35-118	Low Bias			
2,4-Dichlorophenol	ND	5.00	"	1.00			25-116	Low Bias			
2,4-Dimethylphenol	ND	5.00	"	1.00			15-116	Low Bias			
2,4-Dinitrophenol	ND	5.00	"	1.00			10-170	Low Bias			
2,4-Dinitrotoluene	ND	5.00	"	1.00			41-128	Low Bias			
2,6-Dinitrotoluene	ND	5.00	"	1.00			45-116	Low Bias			
2-Chloronaphthalene	ND	5.00	"	1.00			33-112	Low Bias			
2-Chlorophenol	ND	5.00	"	1.00			15-120	Low Bias			
2-Methylnaphthalene	ND	5.00	"	1.00			24-118	Low Bias			
2-Methylphenol	ND	5.00	"	1.00			10-110	Low Bias			
2-Nitroaniline	ND	5.00	"	1.00			34-129	Low Bias			
2-Nitrophenol	ND	5.00	"	1.00			28-118	Low Bias			
3- & 4-Methylphenols	ND	5.00	"	1.00			10-107	Low Bias			
3,3-Dichlorobenzidine	ND	5.00	"				15-187				
3-Nitroaniline	ND	5.00	"	1.00			24-134	Low Bias			
4,6-Dinitro-2-methylphenol	ND	5.00	"	1.00			10-153	Low Bias			
4-Bromophenyl phenyl ether	ND	5.00	"	1.00			34-120	Low Bias			
4-Chloro-3-methylphenol	ND	5.00	"	1.00			20-120	Low Bias			
4-Chloroaniline	ND	5.00	"	1.00			10-147	Low Bias			
4-Chlorophenyl phenyl ether	ND	5.00	"	1.00			27-121	Low Bias			
4-Nitroaniline	ND	5.00	"	1.00			13-134	Low Bias			
4-Nitrophenol	ND	5.00	"	1.00			10-131	Low Bias			
Acenaphthene	0.610	0.0500	"	1.00		61.0	25-116				
Acenaphthylene	0.610	0.0500	"	1.00		61.0	26-116				
Acetophenone	ND	5.00	"				25-110				
Aniline	ND	5.00	"	1.00			10-117	Low Bias			
Anthracene	0.640	0.0500	"	1.00		64.0	25-123				
Benzaldehyde	ND	5.00	"				29-117				
Benzo(a)anthracene	0.770	0.0500	"	1.00		77.0	33-125				
Benzo(a)pyrene	0.660	0.0500	"	1.00		66.0	32-132				
Benzo(b)fluoranthene	0.810	0.0500	"	1.00		81.0	22-137				
Benzo(g,h,i)perylene	0.690	0.0500	"	1.00		69.0	10-138				
Benzo(k)fluoranthene	0.740	0.0500	"	1.00		74.0	20-137				
Benzoic acid	ND	5.00	"				30-130				
Benzyl alcohol	ND	5.00	"	1.00			10-117	Low Bias			
Benzyl butyl phthalate	ND	5.00	"	1.00			29-133	Low Bias			
Bis(2-chloroethoxy)methane	ND	5.00	"	1.00			10-154	Low Bias			
Bis(2-chloroethyl)ether	ND	5.00	"	1.00			17-125	Low Bias			
Bis(2-chloroisopropyl)ether	ND	5.00	"	1.00			10-139	Low Bias			



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11263 - EPA 3510C

LCS (BG11263-BS2) LCS Prepared: 07/23/2021 Analyzed: 07/26/2021

Bis(2-ethylhexyl)phthalate	1.39	0.500	ug/L	1.00		139	10-189				
Caprolactam	ND	5.00	"				10-137				
Carbazole	ND	5.00	"	1.00			42-126	Low Bias			
Chrysene	0.750	0.0500	"	1.00		75.0	32-124				
Dibenzo(a,h)anthracene	0.800	0.0500	"	1.00		80.0	16-133				
Dibenzofuran	ND	5.00	"	1.00			36-113	Low Bias			
Diethyl phthalate	ND	5.00	"	1.00			38-115	Low Bias			
Dimethyl phthalate	ND	5.00	"	1.00			38-129	Low Bias			
Di-n-butyl phthalate	ND	5.00	"	1.00			31-120	Low Bias			
Di-n-octyl phthalate	ND	5.00	"	1.00			21-149	Low Bias			
Diphenylamine	ND	5.00	"	1.00			40-140	Low Bias			
Fluoranthene	0.970	0.0500	"	1.00		97.0	32-121				
Fluorene	0.760	0.0500	"	1.00		76.0	28-118				
Hexachlorobenzene	0.840	0.0200	"	1.00		84.0	23-124				
Hexachlorobutadiene	0.910	0.500	"	1.00		91.0	15-123				
Hexachlorocyclopentadiene	ND	10.0	"	1.00			10-130	Low Bias			
Hexachloroethane	0.680	0.500	"	1.00		68.0	18-115				
Indeno(1,2,3-cd)pyrene	0.720	0.0500	"	1.00		72.0	15-135				
Isophorone	ND	5.00	"	1.00			25-127	Low Bias			
Naphthalene	0.610	0.0500	"	1.00		61.0	18-120				
Nitrobenzene	0.690	0.250	"	1.00		69.0	21-121				
N-Nitrosodimethylamine	ND	0.500	"	1.00			10-124	Low Bias			
N-nitroso-di-n-propylamine	ND	5.00	"	1.00			26-122	Low Bias			
N-Nitrosodiphenylamine	ND	5.00	"	1.00			23-149	Low Bias			
Pentachlorophenol	1.05	0.250	"	1.00		105	10-156				
Phenanthrene	0.760	0.0500	"	1.00		76.0	24-127				
Phenol	ND	5.00	"	1.00			10-110	Low Bias			
Pyrene	0.660	0.0500	"	1.00		66.0	31-132				
Pyridine	ND	5.00	"	1.00			10-90	Low Bias			
Surrogate: SURR: 2-Fluorophenol	0.00		"	50.0			19.7-63.1				
Surrogate: SURR: Phenol-d5	0.00		"	50.0			10.1-41.7				
Surrogate: SURR: Nitrobenzene-d5	0.00		"	25.0			50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	0.00		"	25.0			39.9-105				
Surrogate: SURR: 2,4,6-Tribromophenol	0.00		"	50.0			39.3-151				
Surrogate: SURR: Terphenyl-d14	0.00		"	25.0			30.7-106				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG11263 - EPA 3510C											
Prepared: 07/23/2021 Analyzed: 07/26/2021											
LCS Dup (BG11263-BSD1)	LCS Dup										
1,1-Biphenyl	16.8	5.00	ug/L	25.0		67.3	33-95		3.16	20	
1,2,4,5-Tetrachlorobenzene	15.0	5.00	"	50.0		29.9	26-120		6.09	20	
1,2-Diphenylhydrazine (as Azobenzene)	24.3	5.00	"	25.0		97.0	16-141		3.06	20	
2,3,4,6-Tetrachlorophenol	28.8	5.00	"	25.0		115	30-130		4.90	20	
2,4,5-Trichlorophenol	18.7	5.00	"	25.0		74.7	32-114		6.87	20	
2,4,6-Trichlorophenol	16.4	5.00	"	25.0		65.4	35-118		0.0611	20	
2,4-Dichlorophenol	16.5	5.00	"	25.0		65.9	25-116		1.78	20	
2,4-Dimethylphenol	16.3	5.00	"	25.0		65.3	15-116		3.37	20	
2,4-Dinitrophenol	17.2	5.00	"	25.0		68.8	10-170		2.64	20	
2,4-Dinitrotoluene	23.0	5.00	"	25.0		91.9	41-128		8.53	20	
2,6-Dinitrotoluene	20.1	5.00	"	25.0		80.5	45-116		1.55	20	
2-Chloronaphthalene	15.2	5.00	"	25.0		60.8	33-112		4.50	20	
2-Chlorophenol	14.3	5.00	"	25.0		57.1	15-120		1.06	20	
2-Methylnaphthalene	17.9	5.00	"	25.0		71.6	24-118		5.54	20	
2-Methylphenol	12.5	5.00	"	25.0		50.1	10-110		10.3	20	
2-Nitroaniline	18.6	5.00	"	25.0		74.4	34-129		3.44	20	
2-Nitrophenol	15.4	5.00	"	25.0		61.4	28-118		6.61	20	
3- & 4-Methylphenols	12.0	5.00	"	25.0		48.1	10-107		0.745	20	
3,3-Dichlorobenzidine	9.02	5.00	"	50.0		18.0	15-187		4.65	20	
3-Nitroaniline	20.3	5.00	"	25.0		81.3	24-134		6.87	20	
4,6-Dinitro-2-methylphenol	18.3	5.00	"	25.0		73.3	10-153		0.00	20	
4-Bromophenyl phenyl ether	17.9	5.00	"	25.0		71.7	34-120		2.43	20	
4-Chloro-3-methylphenol	20.1	5.00	"	25.0		80.4	20-120		5.00	20	
4-Chloroaniline	18.0	5.00	"	25.0		72.1	10-147		9.83	20	
4-Chlorophenyl phenyl ether	17.9	5.00	"	25.0		71.5	27-121		0.899	20	
4-Nitroaniline	19.3	5.00	"	25.0		77.4	13-134		1.59	20	
4-Nitrophenol	13.9	5.00	"	25.0		55.7	10-131		6.91	20	
Acetophenone	16.2	5.00	"	25.0		64.8	25-110		4.76	20	
Aniline	14.2	5.00	"	25.0		56.8	10-117		17.9	20	
Benzaldehyde	14.2	5.00	"	25.0		56.9	29-117		3.25	20	
Benzoic acid	9.32	5.00	"	25.0		37.3	30-130		4.05	20	
Benzyl alcohol	13.6	5.00	"	25.0		54.6	10-117		3.88	20	
Benzyl butyl phthalate	24.9	5.00	"	25.0		99.5	29-133		5.45	20	
Bis(2-chloroethoxy)methane	14.0	5.00	"	25.0		56.1	10-154		0.640	20	
Bis(2-chloroethyl)ether	13.2	5.00	"	25.0		52.9	17-125		11.1	20	
Bis(2-chloroisopropyl)ether	10.4	5.00	"	25.0		41.6	10-139		15.8	20	
Caprolactam	5.24	5.00	"	25.0		21.0	10-137		3.10	20	
Carbazole	21.6	5.00	"	25.0		86.4	42-126		7.70	20	
Dibenzofuran	18.1	5.00	"	25.0		72.4	36-113		0.00	20	
Diethyl phthalate	23.4	5.00	"	25.0		93.4	38-115		5.73	20	
Dimethyl phthalate	20.5	5.00	"	25.0		82.0	38-129		5.05	20	
Di-n-butyl phthalate	23.5	5.00	"	25.0		94.0	31-120		5.42	20	
Di-n-octyl phthalate	23.7	5.00	"	25.0		94.9	21-149		6.44	20	
Diphenylamine	23.0	5.00	"	25.0		92.0	40-140		0.961	20	
Hexachlorocyclopentadiene	11.2	10.0	"	25.0		45.0	10-130		11.8	20	
Isophorone	17.2	5.00	"	25.0		69.0	25-127		5.80	20	
N-nitroso-di-n-propylamine	15.6	5.00	"	25.0		62.5	26-122		5.60	20	
N-Nitrosodiphenylamine	23.8	5.00	"	25.0		95.0	23-149		0.676	20	
Phenol	7.31	5.00	"	25.0		29.2	10-110		3.89	20	
Pyridine	6.39	5.00	"	25.5		25.1	10-90		3.84	20	
Surrogate: SURR: 2-Fluorophenol	18.4		"	50.0		36.7	19.7-63.1				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11263 - EPA 3510C

LCS Dup (BG11263-BSD1) LCS Dup

Prepared: 07/23/2021 Analyzed: 07/26/2021

Surrogate: SURR: Phenol-d5	12.4		ug/L	50.0		24.8	10.1-41.7				
Surrogate: SURR: Nitrobenzene-d5	18.0		"	25.0		72.1	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	16.6		"	25.0		66.5	39.9-105				
Surrogate: SURR: 2,4,6-Tribromophenol	42.4		"	50.0		84.9	39.3-151				
Surrogate: SURR: Terphenyl-d14	30.2		"	25.0		121	30.7-106				

Batch BG11289 - EPA 3546 SVOA

Blank (BG11289-BLK1) Blank

Prepared: 07/23/2021 Analyzed: 07/26/2021

1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzydine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11289 - EPA 3546 SVOA

Blank (BG11289-BLK1)	Blank										
											Prepared: 07/23/2021 Analyzed: 07/26/2021
Benzyl butyl phthalate	ND	0.0416	mg/kg wet								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								
Caprolactam	ND	0.0830	"								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								
Dibenzofuran	ND	0.0416	"								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Pyridine	ND	0.166	"								
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Surrogate: SURR: 2-Fluorophenol	1.19		"	1.66		71.8	20-108				
Surrogate: SURR: Phenol-d5	1.00		"	1.66		60.4	23-114				
Surrogate: SURR: Nitrobenzene-d5	0.619		"	0.831		74.5	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	0.649		"	0.831		78.1	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1.42		"	1.66		85.4	19-110				
Surrogate: SURR: Terphenyl-d14	0.722		"	0.831		86.9	24-116				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11289 - EPA 3546 SVOA

LCS (BG11289-BS1)	LCS	Prepared: 07/23/2021 Analyzed: 07/26/2021									
1,1-Biphenyl	0.622	0.0416	mg/kg wet	0.831		74.9	18-111				
1,2,4,5-Tetrachlorobenzene	0.694	0.0830	"	0.831		83.5	21-131				
1,2-Diphenylhydrazine (as Azobenzene)	0.487	0.0416	"	0.831		58.6	17-137				
2,3,4,6-Tetrachlorophenol	0.569	0.0830	"	0.831		68.5	30-130				
2,4,5-Trichlorophenol	0.672	0.0416	"	0.831		81.0	27-118				
2,4,6-Trichlorophenol	0.661	0.0416	"	0.831		79.6	31-120				
2,4-Dichlorophenol	0.711	0.0416	"	0.831		85.6	20-127				
2,4-Dimethylphenol	0.648	0.0416	"	0.831		78.0	14-132				
2,4-Dinitrophenol	0.661	0.0830	"	0.831		79.6	10-171				
2,4-Dinitrotoluene	0.650	0.0416	"	0.831		78.2	34-131				
2,6-Dinitrotoluene	0.758	0.0416	"	0.831		91.2	31-128				
2-Chloronaphthalene	0.618	0.0416	"	0.831		74.4	31-117				
2-Chlorophenol	0.603	0.0416	"	0.831		72.6	33-113				
2-Methylnaphthalene	0.662	0.0416	"	0.831		79.8	12-138				
2-Methylphenol	0.528	0.0416	"	0.831		63.6	10-136				
2-Nitroaniline	0.674	0.0830	"	0.831		81.1	27-132				
2-Nitrophenol	0.750	0.0416	"	0.831		90.3	17-129				
3- & 4-Methylphenols	0.473	0.0416	"	0.831		57.0	29-103				
3,3-Dichlorobenzidine	0.592	0.0416	"	0.831		71.2	22-149				
3-Nitroaniline	0.629	0.0830	"	0.831		75.7	20-133				
4,6-Dinitro-2-methylphenol	0.651	0.0830	"	0.831		78.4	10-143				
4-Bromophenyl phenyl ether	0.635	0.0416	"	0.831		76.4	29-120				
4-Chloro-3-methylphenol	0.551	0.0416	"	0.831		66.4	24-129				
4-Chloroaniline	0.539	0.0416	"	0.831		64.9	10-132				
4-Chlorophenyl phenyl ether	0.602	0.0416	"	0.831		72.5	27-124				
4-Nitroaniline	0.589	0.0830	"	0.831		71.0	16-128				
4-Nitrophenol	0.479	0.0830	"	0.831		57.7	10-141				
Acenaphthene	0.628	0.0416	"	0.831		75.6	30-121				
Acenaphthylene	0.604	0.0416	"	0.831		72.7	30-115				
Acetophenone	0.499	0.0416	"	0.831		60.1	20-112				
Aniline	0.493	0.166	"	0.831		59.4	10-119				
Anthracene	0.650	0.0416	"	0.831		78.3	34-118				
Atrazine	0.605	0.0416	"	0.831		72.9	26-112				
Benzaldehyde	0.502	0.0416	"	0.831		60.4	21-100				
Benzo(a)anthracene	0.656	0.0416	"	0.831		79.0	32-122				
Benzo(a)pyrene	0.681	0.0416	"	0.831		82.0	29-133				
Benzo(b)fluoranthene	0.657	0.0416	"	0.831		79.1	25-133				
Benzo(g,h,i)perylene	0.733	0.0416	"	0.831		88.3	10-143				
Benzo(k)fluoranthene	0.661	0.0416	"	0.831		79.6	25-128				
Benzoic acid	0.587	0.0416	"	0.831		70.7	10-140				
Benzyl alcohol	0.495	0.0416	"	0.831		59.6	30-115				
Benzyl butyl phthalate	0.628	0.0416	"	0.831		75.6	26-126				
Bis(2-chloroethoxy)methane	0.507	0.0416	"	0.831		61.0	19-132				
Bis(2-chloroethyl)ether	0.471	0.0416	"	0.831		56.7	19-125				
Bis(2-chloroisopropyl)ether	0.386	0.0416	"	0.831		46.5	20-135				
Bis(2-ethylhexyl)phthalate	0.581	0.0416	"	0.831		70.0	10-155				
Caprolactam	0.562	0.0830	"	0.831		67.6	10-127				
Carbazole	0.632	0.0416	"	0.831		76.1	35-123				
Chrysene	0.669	0.0416	"	0.831		80.6	32-123				
Dibenzo(a,h)anthracene	0.712	0.0416	"	0.831		85.8	10-136				
Dibenzofuran	0.622	0.0416	"	0.831		74.9	29-121				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11289 - EPA 3546 SVOA

LCS (BG11289-BS1)	LCS	Prepared: 07/23/2021 Analyzed: 07/26/2021									
Diethyl phthalate	0.545	0.0416	mg/kg wet	0.831		65.6	34-116				
Dimethyl phthalate	0.558	0.0416	"	0.831		67.2	35-124				
Di-n-butyl phthalate	0.546	0.0416	"	0.831		65.7	31-116				
Di-n-octyl phthalate	0.577	0.0416	"	0.831		69.5	26-136				
Diphenylamine	0.732	0.0830	"	0.831		88.1	40-140				
Fluoranthene	0.571	0.0416	"	0.831		68.8	33-122				
Fluorene	0.620	0.0416	"	0.831		74.6	29-123				
Hexachlorobenzene	0.521	0.0416	"	0.831		62.7	21-124				
Hexachlorobutadiene	0.637	0.0416	"	0.831		76.6	10-149				
Hexachlorocyclopentadiene	0.519	0.0416	"	0.831		62.5	10-129				
Hexachloroethane	0.549	0.0416	"	0.831		66.1	28-108				
Indeno(1,2,3-cd)pyrene	0.706	0.0416	"	0.831		85.0	10-135				
Isophorone	0.486	0.0416	"	0.831		58.6	20-132				
Naphthalene	0.640	0.0416	"	0.831		77.1	23-124				
Nitrobenzene	0.549	0.0416	"	0.831		66.1	13-132				
N-Nitrosodimethylamine	0.391	0.0416	"	0.831		47.0	11-129				
N-nitroso-di-n-propylamine	0.399	0.0416	"	0.831		48.0	24-119				
N-Nitrosodiphenylamine	0.725	0.0416	"	0.831		87.2	22-152				
Pentachlorophenol	0.450	0.0416	"	0.831		54.2	10-139				
Phenanthrene	0.598	0.0416	"	0.831		72.0	33-123				
Phenol	0.586	0.0416	"	0.831		70.6	23-115				
Pyrene	0.684	0.0416	"	0.831		82.4	24-130				
Pyridine	0.330	0.166	"	0.831		39.7	10-91				
Surrogate: SURR: 2-Fluorophenol	1.15		"	1.66		69.5	20-108				
Surrogate: SURR: Phenol-d5	1.01		"	1.66		61.0	23-114				
Surrogate: SURR: Nitrobenzene-d5	0.589		"	0.831		71.0	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	0.624		"	0.831		75.1	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1.42		"	1.66		85.6	19-110				
Surrogate: SURR: Terphenyl-d14	0.690		"	0.831		83.0	24-116				



Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BG11304 - EPA 3550C												
Blank (BG11304-BLK1)	Blank								Prepared: 07/23/2021 Analyzed: 07/26/2021			
1,4-Dioxane	ND	19.8	ug/kg									
Surrogate: 1,4-Dioxane-d8	337		"	495		68.0	39-127.5					
LCS (BG11304-BS1)	LCS								Prepared: 07/23/2021 Analyzed: 07/26/2021			
1,4-Dioxane	512	19.8	ug/kg	495		103	40-130					
Surrogate: 1,4-Dioxane-d8	287		"	495		58.0	39-127.5					
Matrix Spike (BG11304-MS1)	Matrix Spike	*Source sample: 21G0891-01 (Matrix Spike)								Prepared: 07/23/2021 Analyzed: 07/26/2021		
1,4-Dioxane	495	19.8	ug/kg	495	ND	100	40-130					
Surrogate: 1,4-Dioxane-d8	267		"	495		54.0	40-130					
Matrix Spike (BG11304-MS2)	Matrix Spike	*Source sample: 21G1096-04 (414_EP07_8.5)								Prepared: 07/23/2021 Analyzed: 07/26/2021		
1,4-Dioxane	495	19.8	ug/kg	495	ND	100	40-130					
Surrogate: 1,4-Dioxane-d8	238		"	495		48.0	40-130					
Matrix Spike Dup (BG11304-1)	Matrix Spike Dup	*Source sample: 21G0891-01 (Matrix Spike Dup)								Prepared: 07/23/2021 Analyzed: 07/26/2021		
1,4-Dioxane	495	19.8	ug/kg	495	ND	100	40-130	0.00		30		
Surrogate: 1,4-Dioxane-d8	248		"	495		50.0	40-130					
Matrix Spike Dup (BG11304-2)	Matrix Spike Dup	*Source sample: 21G1096-04 (414_EP07_8.5)								Prepared: 07/23/2021 Analyzed: 07/26/2021		
1,4-Dioxane	474	19.8	ug/kg	495	ND	95.8	40-130	4.29		30		
Surrogate: 1,4-Dioxane-d8	238		"	495		48.0	40-130					

Batch BG11350 - EPA 3535A

Blank (BG11350-BLK1)	Blank								Prepared & Analyzed: 07/26/2021		
1,4-Dioxane	ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8	3.52		"	4.00		88.0	36.6-118				



Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BG11350 - EPA 3535A												
LCS (BG11350-BS1)	LCS										Prepared & Analyzed: 07/26/2021	
1,4-Dioxane	4.00	0.300	ug/L	4.00		100	50-130					
<i>Surrogate: 1,4-Dioxane-d8</i>	<i>3.84</i>		<i>"</i>	<i>4.00</i>		<i>96.0</i>	<i>36.6-118</i>					
Matrix Spike (BG11350-MS1)	Matrix Spike	*Source sample: 21G0891-11 (Matrix Spike)										Prepared & Analyzed: 07/26/2021
1,4-Dioxane	4.00	0.300	ug/L	4.00	ND	100	50-130					
<i>Surrogate: 1,4-Dioxane-d8</i>	<i>3.36</i>		<i>"</i>	<i>4.00</i>		<i>84.0</i>	<i>50-130</i>					
Matrix Spike Dup (BG11350-1)	Matrix Spike Dup	*Source sample: 21G0891-11 (Matrix Spike Dup)										Prepared & Analyzed: 07/26/2021
1,4-Dioxane	3.84	0.300	ug/L	4.00	ND	96.0	50-130		4.08	30		
<i>Surrogate: 1,4-Dioxane-d8</i>	<i>4.00</i>		<i>"</i>	<i>4.00</i>		<i>100</i>	<i>50-130</i>					



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11344 - SPE PFAS Extraction-Soil-EPA 537m

Blank (BG11344-BLK1) Blank

Prepared: 07/24/2021 Analyzed: 07/27/2021

Perfluorobutanesulfonic acid (PFBS)	ND	0.228	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.228	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.228	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.228	"								
Perfluorooctanoic acid (PFOA)	ND	0.228	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.228	"								
Perfluorononanoic acid (PFNA)	ND	0.228	"								
Perfluorodecanoic acid (PFDA)	ND	0.228	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.228	"								
Perfluorododecanoic acid (PFDoA)	ND	0.228	"								
Perfluorotridecanoic acid (PFTriDA)	ND	0.228	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.228	"								
N-MeFOSAA	ND	0.228	"								
N-EtFOSAA	ND	0.228	"								
Perfluoropentanoic acid (PFPeA)	ND	0.228	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.228	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.228	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.228	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	ND	0.228	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	ND	0.228	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.228	"								
Surrogate: M3PFBS	3.96		"	4.24		93.5	25-150				
Surrogate: M5PFHxA	4.39		"	4.57		96.1	25-150				
Surrogate: M4PFHpA	4.32		"	4.57		94.5	25-150				
Surrogate: M3PFHxS	3.85		"	4.32		89.2	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.53		"	4.57		99.2	25-150				
Surrogate: M6PFDA	4.55		"	4.57		99.7	25-150				
Surrogate: M7PFUdA	4.39		"	4.57		96.1	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	4.65		"	4.57		102	25-150				
Surrogate: M2PFTeDA	3.55		"	4.57		77.8	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	4.56		"	4.57		99.8	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.63		"	4.37		83.1	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.59		"	4.57		101	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.86		"	4.57		84.5	10-150				
Surrogate: d3-N-MeFOSAA	4.85		"	4.57		106	25-150				
Surrogate: d5-N-EtFOSAA	5.66		"	4.57		124	25-150				
Surrogate: M2-6:2 FTS	8.35		"	4.33		193	25-200				
Surrogate: M2-8:2 FTS	12.3		"	4.37		282	25-200				
Surrogate: M9PFNA	4.94		"	4.57		108	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11344 - SPE PFAS Extraction-Soil-EPA 537m

LCS (BG11344-BS1)	LCS	Prepared: 07/24/2021 Analyzed: 07/27/2021									
Perfluorobutanesulfonic acid (PFBS)	3.83	0.233	ug/kg wet	4.12		93.1	50-130				
Perfluorohexanoic acid (PFHxA)	4.39	0.233	"	4.65		94.4	50-130				
Perfluoroheptanoic acid (PFHpA)	4.34	0.233	"	4.65		93.4	50-130				
Perfluorohexanesulfonic acid (PFHxS)	4.09	0.233	"	4.24		96.5	50-130				
Perfluorooctanoic acid (PFOA)	4.49	0.233	"	4.65		96.5	50-130				
Perfluorooctanesulfonic acid (PFOS)	4.27	0.233	"	4.31		99.2	50-130				
Perfluorononanoic acid (PFNA)	3.97	0.233	"	4.65		85.4	50-130				
Perfluorodecanoic acid (PFDA)	4.56	0.233	"	4.65		98.0	50-130				
Perfluoroundecanoic acid (PFUnA)	4.18	0.233	"	4.65		89.8	50-130				
Perfluorododecanoic acid (PFDoA)	4.16	0.233	"	4.65		89.3	50-130				
Perfluorotridecanoic acid (PFTrDA)	4.01	0.233	"	4.65		86.2	50-130				
Perfluorotetradecanoic acid (PFTA)	4.42	0.233	"	4.65		95.0	50-130				
N-MeFOSAA	4.50	0.233	"	4.65		96.8	50-130				
N-EtFOSAA	4.38	0.233	"	4.65		94.1	50-130				
Perfluoropentanoic acid (PFPeA)	3.97	0.233	"	4.65		85.4	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	4.23	0.233	"	4.65		90.9	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.14	0.233	"	4.42		116	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	3.80	0.233	"	4.49		84.8	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	7.87	0.233	"	4.42		178	50-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	9.99	0.233	"	4.47		224	50-200	High Bias			
Perfluoro-n-butanoic acid (PFBA)	4.37	0.233	"	4.65		93.9	50-130				
Surrogate: M3PFBS	3.84		"	4.32		88.8	25-150				
Surrogate: M5PFHxA	4.10		"	4.65		88.2	25-150				
Surrogate: M4PFHpA	4.17		"	4.65		89.5	25-150				
Surrogate: M3PFHxS	3.76		"	4.40		85.4	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.16		"	4.65		89.5	25-150				
Surrogate: M6PFDA	4.14		"	4.65		89.0	25-150				
Surrogate: M7PFUdA	3.73		"	4.65		80.2	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	4.00		"	4.65		86.0	25-150				
Surrogate: M2PFTeDA	3.00		"	4.65		64.6	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	4.29		"	4.65		92.2	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.55		"	4.45		79.8	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.45		"	4.65		95.6	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.63		"	4.65		77.9	10-150				
Surrogate: d3-N-MeFOSAA	4.34		"	4.65		93.3	25-150				
Surrogate: d5-N-EtFOSAA	4.47		"	4.65		96.1	25-150				
Surrogate: M2-6:2 FTS	6.25		"	4.41		142	25-200				
Surrogate: M2-8:2 FTS	7.85		"	4.46		176	25-200				
Surrogate: M9PFNA	4.52		"	4.65		97.1	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG11344 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike (BG11344-MS1) Matrix Spike						*Source sample: 21G1096-04 (414_EP07_8.5)			Prepared: 07/24/2021 Analyzed: 07/27/2021		
Perfluorobutanesulfonic acid (PFBS)	4.38	0.248	ug/kg dry	4.38	ND	100	25-150				
Perfluorohexanoic acid (PFHxA)	4.57	0.248	"	4.95	ND	92.1	25-150				
Perfluoroheptanoic acid (PFHpA)	4.66	0.248	"	4.95	ND	94.1	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.31	0.248	"	4.52	ND	95.3	25-150				
Perfluorooctanoic acid (PFOA)	5.02	0.248	"	4.95	ND	101	25-150				
Perfluorooctanesulfonic acid (PFOS)	4.99	0.248	"	4.59	ND	109	25-150				
Perfluorononanoic acid (PFNA)	4.29	0.248	"	4.95	ND	86.6	25-150				
Perfluorodecanoic acid (PFDA)	4.81	0.248	"	4.95	ND	97.1	25-150				
Perfluoroundecanoic acid (PFUnA)	4.89	0.248	"	4.95	ND	98.6	25-150				
Perfluorododecanoic acid (PFDoA)	4.54	0.248	"	4.95	ND	91.5	25-150				
Perfluorotridecanoic acid (PFTrDA)	4.53	0.248	"	4.95	ND	91.5	25-150				
Perfluorotetradecanoic acid (PFTA)	4.92	0.248	"	4.95	ND	99.3	25-150				
N-MeFOSAA	5.00	0.248	"	4.95	ND	101	25-150				
N-EtFOSAA	4.32	0.248	"	4.95	ND	87.2	25-150				
Perfluoropentanoic acid (PFPeA)	4.41	0.248	"	4.95	ND	88.9	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.62	0.248	"	4.95	ND	93.3	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.06	0.248	"	4.71	ND	108	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	4.26	0.248	"	4.78	ND	89.1	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	9.05	0.248	"	4.71	ND	192	25-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	11.4	0.248	"	4.76	ND	240	25-200	High Bias			
Perfluoro-n-butanoic acid (PFBA)	4.84	0.248	"	4.95	ND	97.6	25-150				
Surrogate: M3PFBS	4.12		"	4.60		89.6	25-150				
Surrogate: M5PFHxA	4.72		"	4.95		95.3	25-150				
Surrogate: M4PFHpA	4.53		"	4.95		91.4	25-150				
Surrogate: M3PFHxS	3.98		"	4.69		84.9	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.17		"	4.95		84.1	25-150				
Surrogate: M6PFDA	4.42		"	4.95		89.1	25-150				
Surrogate: M7PFUdA	3.74		"	4.95		75.4	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	4.70		"	4.95		94.9	25-150				
Surrogate: M2PFTeDA	3.59		"	4.95		72.4	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	5.03		"	4.95		101	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.66		"	4.74		77.1	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.11		"	4.95		103	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.40		"	4.95		68.6	10-150				
Surrogate: d3-N-MeFOSAA	3.62		"	4.95		73.0	25-150				
Surrogate: d5-N-EtFOSAA	4.17		"	4.95		84.2	25-150				
Surrogate: M2-6:2 FTS	6.14		"	4.70		131	25-200				
Surrogate: M2-8:2 FTS	7.71		"	4.75		163	25-200				
Surrogate: M9PFNA	4.94		"	4.95		99.7	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG11344 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike Dup (BG11344-1 Matrix Spike Dup) Source sample: 21G1096-04 (414_EP07_8.5)						Prepared: 07/24/2021 Analyzed: 07/27/2021					
Perfluorobutanesulfonic acid (PFBS)	4.30	0.267	ug/kg dry	4.73	ND	91.0	25-150		1.92	35	
Perfluorohexanoic acid (PFHxA)	4.72	0.267	"	5.34	ND	88.5	25-150		3.43	35	
Perfluoroheptanoic acid (PFHpA)	4.91	0.267	"	5.34	ND	92.0	25-150		5.28	35	
Perfluorohexanesulfonic acid (PFHxS)	4.72	0.267	"	4.87	ND	96.9	25-150		9.19	35	
Perfluorooctanoic acid (PFOA)	4.95	0.267	"	5.34	ND	92.7	25-150		1.45	35	
Perfluorooctanesulfonic acid (PFOS)	4.74	0.267	"	4.94	ND	95.8	25-150		5.24	35	
Perfluorononanoic acid (PFNA)	4.50	0.267	"	5.34	ND	84.2	25-150		4.71	35	
Perfluorodecanoic acid (PFDA)	5.00	0.267	"	5.34	ND	93.6	25-150		3.75	35	
Perfluoroundecanoic acid (PFUnA)	4.69	0.267	"	5.34	ND	87.8	25-150		4.10	35	
Perfluorododecanoic acid (PFDoA)	4.67	0.267	"	5.34	ND	87.4	25-150		2.88	35	
Perfluorotridecanoic acid (PFTriDA)	4.89	0.267	"	5.34	ND	91.6	25-150		7.69	35	
Perfluorotetradecanoic acid (PFTA)	4.85	0.267	"	5.34	ND	90.9	25-150		1.33	35	
N-MeFOSAA	5.01	0.267	"	5.34	ND	93.8	25-150		0.0341	35	
N-EtFOSAA	4.55	0.267	"	5.34	ND	85.3	25-150		5.20	35	
Perfluoropentanoic acid (PFPeA)	4.47	0.267	"	5.34	ND	83.7	25-150		1.43	35	
Perfluoro-1-octanesulfonamide (FOSA)	5.08	0.267	"	5.34	ND	95.1	25-150		9.39	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.83	0.267	"	5.07	ND	95.1	25-150		4.76	35	
Perfluoro-1-decanesulfonic acid (PFDS)	4.11	0.267	"	5.15	ND	79.7	25-150		3.69	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F)	8.88	0.267	"	5.07	ND	175	25-200		1.88	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F)	9.47	0.267	"	5.13	ND	185	25-200		18.6	35	
Perfluoro-n-butanoic acid (PFBA)	4.86	0.267	"	5.34	ND	91.0	25-150		0.407	35	
Surrogate: M3PFBS	4.64		"	4.96		93.6	25-150				
Surrogate: M5PFHxA	5.12		"	5.34		96.0	25-150				
Surrogate: M4PFHpA	4.89		"	5.34		91.7	25-150				
Surrogate: M3PFHxS	4.10		"	5.05		81.1	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.99		"	5.34		93.5	25-150				
Surrogate: M6PFDA	4.97		"	5.34		93.1	25-150				
Surrogate: M7PFUdA	4.35		"	5.34		81.4	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	4.83		"	5.34		90.4	25-150				
Surrogate: M2PFTeDA	4.05		"	5.34		75.8	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	5.48		"	5.34		103	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	4.45		"	5.11		87.1	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.68		"	5.34		106	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.59		"	5.34		67.2	10-150				
Surrogate: d3-N-MeFOSAA	4.22		"	5.34		79.1	25-150				
Surrogate: d5-N-EtFOSAA	5.06		"	5.34		94.7	25-150				
Surrogate: M2-6:2 FTS	6.96		"	5.07		137	25-200				
Surrogate: M2-8:2 FTS	9.19		"	5.12		180	25-200				
Surrogate: M9PFNA	5.74		"	5.34		107	25-150				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11288 - EPA 3550C

Blank (BG11288-BLK1)	Blank	Prepared: 07/23/2021 Analyzed: 07/26/2021									
4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								

Surrogate: Decachlorobiphenyl	0.0409		"	0.0664		61.5	30-150				
Surrogate: Tetrachloro-m-xylene	0.0497		"	0.0664		74.8	30-150				

LCS (BG11288-BS1)	LCS	Prepared: 07/23/2021 Analyzed: 07/26/2021									
4,4'-DDD	0.0243	0.00164	mg/kg wet	0.0332		73.2	40-140				
4,4'-DDE	0.0176	0.00164	"	0.0332		53.0	40-140				
4,4'-DDT	0.0241	0.00164	"	0.0332		72.5	40-140				
Aldrin	0.0330	0.00164	"	0.0332		99.4	40-140				
alpha-BHC	0.0322	0.00164	"	0.0332		96.8	40-140				
alpha-Chlordane	0.0323	0.00164	"	0.0332		97.4	40-140				
beta-BHC	0.0324	0.00164	"	0.0332		97.5	40-140				
delta-BHC	0.0281	0.00164	"	0.0332		84.7	40-140				
Dieldrin	0.0341	0.00164	"	0.0332		103	40-140				
Endosulfan I	0.0379	0.00164	"	0.0332		114	40-140				
Endosulfan II	0.0369	0.00164	"	0.0332		111	40-140				
Endosulfan sulfate	0.0291	0.00164	"	0.0332		87.7	40-140				
Endrin	0.0299	0.00164	"	0.0332		89.9	40-140				
Endrin aldehyde	0.0287	0.00164	"	0.0332		86.3	40-140				
Endrin ketone	0.0307	0.00164	"	0.0332		92.3	40-140				
gamma-BHC (Lindane)	0.0299	0.00164	"	0.0332		89.9	40-140				
gamma-Chlordane	0.0328	0.00164	"	0.0332		98.7	40-140				
Heptachlor	0.0384	0.00164	"	0.0332		116	40-140				
Heptachlor epoxide	0.0341	0.00164	"	0.0332		103	40-140				
Methoxychlor	0.0172	0.00164	"	0.0332		51.7	40-140				

Surrogate: Decachlorobiphenyl	0.0455		"	0.0664		68.5	30-150				
Surrogate: Tetrachloro-m-xylene	0.0549		"	0.0664		82.6	30-150				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11351 - EPA SW846-3510C Low Level

Blank (BG11351-BLK1)	Blank	Prepared: 07/26/2021 Analyzed: 07/27/2021									
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Chlordane, total	ND	0.200	"								
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Surrogate: Decachlorobiphenyl	0.197		"	0.200		98.3	30-150				
Surrogate: Tetrachloro-m-xylene	0.179		"	0.200		89.3	30-150				

LCS (BG11351-BS1)	LCS	Prepared: 07/26/2021 Analyzed: 07/27/2021									
4,4'-DDD	0.123	0.00400	ug/L	0.100		123	40-140				
4,4'-DDE	0.132	0.00400	"	0.100		132	40-140				
4,4'-DDT	0.156	0.00400	"	0.100		156	40-140	High Bias			
Aldrin	0.0959	0.00400	"	0.100		95.9	40-140				
alpha-BHC	0.107	0.00400	"	0.100		107	40-140				
alpha-Chlordane	0.101	0.00400	"	0.100		101	40-140				
beta-BHC	0.117	0.00400	"	0.100		117	40-140				
delta-BHC	0.115	0.00400	"	0.100		115	40-140				
Dieldrin	0.121	0.00200	"	0.100		121	40-140				
Endosulfan I	0.0989	0.00400	"	0.100		98.9	40-140				
Endosulfan II	0.122	0.00400	"	0.100		122	40-140				
Endosulfan sulfate	0.102	0.00400	"	0.100		102	40-140				
Endrin	0.127	0.00400	"	0.100		127	40-140				
Endrin aldehyde	0.0977	0.0100	"	0.100		97.7	40-140				
Endrin ketone	0.120	0.0100	"	0.100		120	40-140				
gamma-BHC (Lindane)	0.108	0.00400	"	0.100		108	40-140				
gamma-Chlordane	0.113	0.0100	"	0.100		113	40-140				
Heptachlor	0.131	0.00400	"	0.100		131	40-140				
Heptachlor epoxide	0.112	0.00400	"	0.100		112	40-140				
Methoxychlor	0.147	0.00400	"	0.100		147	40-140	High Bias			
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Surrogate: Decachlorobiphenyl	0.166		"	0.200		82.9	30-150				
Surrogate: Tetrachloro-m-xylene	0.181		"	0.200		90.6	30-150				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11351 - EPA SW846-3510C Low Level

LCS Dup (BG11351-BS1)	LCS Dup	Prepared: 07/26/2021 Analyzed: 07/27/2021									
4,4'-DDD	0.121	0.00400	ug/L	0.100		121	40-140		1.42	20	
4,4'-DDE	0.144	0.00400	"	0.100		144	40-140	High Bias	9.03	20	
4,4'-DDT	0.155	0.00400	"	0.100		155	40-140	High Bias	1.01	20	
Aldrin	0.100	0.00400	"	0.100		100	40-140		4.52	20	
alpha-BHC	0.104	0.00400	"	0.100		104	40-140		2.60	20	
alpha-Chlordane	0.100	0.00400	"	0.100		100	40-140		0.571	20	
beta-BHC	0.113	0.00400	"	0.100		113	40-140		3.73	20	
delta-BHC	0.113	0.00400	"	0.100		113	40-140		1.72	20	
Dieldrin	0.118	0.00200	"	0.100		118	40-140		1.84	20	
Endosulfan I	0.0975	0.00400	"	0.100		97.5	40-140		1.40	20	
Endosulfan II	0.123	0.00400	"	0.100		123	40-140		1.05	20	
Endosulfan sulfate	0.0998	0.00400	"	0.100		99.8	40-140		2.18	20	
Endrin	0.128	0.00400	"	0.100		128	40-140		0.647	20	
Endrin aldehyde	0.0960	0.0100	"	0.100		96.0	40-140		1.77	20	
Endrin ketone	0.117	0.0100	"	0.100		117	40-140		2.07	20	
gamma-BHC (Lindane)	0.105	0.00400	"	0.100		105	40-140		2.55	20	
gamma-Chlordane	0.108	0.0100	"	0.100		108	40-140		3.95	20	
Heptachlor	0.133	0.00400	"	0.100		133	40-140		1.52	20	
Heptachlor epoxide	0.109	0.00400	"	0.100		109	40-140		2.40	20	
Methoxychlor	0.137	0.00400	"	0.100		137	40-140		6.88	20	
Surrogate: Decachlorobiphenyl	0.152		"	0.200		75.9	30-150				
Surrogate: Tetrachloro-m-xylene	0.184		"	0.200		92.0	30-150				

Batch Y1G1207 - BE10937

Performance Mix (Y1G1207-F)	Performance Mix	Prepared & Analyzed: 07/09/2021									
4,4'-DDD	9.58		ng/mL	0.00			0-200				
4,4'-DDE	1.13		"	0.00			0-200				
4,4'-DDT	143		"	200		71.4	0-200				
Endrin	88.9		"	100		88.9	0-200				
Endrin aldehyde	1.40		"	0.00			0-200				
Endrin ketone	4.35		"	0.00			0-200				



Organochlorine Pesticides by GC/ECD - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch Y1G2706 - BG11230

Performance Mix (Y1G2706-F Performance Mix)							Prepared & Analyzed: 07/26/2021				
4,4'-DDD	8.54		ng/mL	0.00			0-200				
4,4'-DDE	2.78		"	0.00			0-200				
4,4'-DDT	315		"	200		157	0-200				
Endrin	142		"	100		142	0-200				
Endrin aldehyde	0.438		"	0.00			0-200				
Endrin ketone	6.30		"	0.00			0-200				
Performance Mix (Y1G2706-F Performance Mix)							Prepared & Analyzed: 07/26/2021				
4,4'-DDD	7.49		ng/mL	0.00			0-200				
4,4'-DDE	3.03		"	0.00			0-200				
4,4'-DDT	305		"	200		152	0-200				
Endrin	140		"	100		140	0-200				
Endrin aldehyde	3.19		"	0.00			0-200				
Endrin ketone	7.58		"	0.00			0-200				



Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

Batch BG11288 - EPA 3550C

Blank (BG11288-BLK2)		Blank										Prepared: 07/23/2021 Analyzed: 07/26/2021	
Aroclor 1016	ND	0.0166	mg/kg wet										
Aroclor 1221	ND	0.0166	"										
Aroclor 1232	ND	0.0166	"										
Aroclor 1242	ND	0.0166	"										
Aroclor 1248	ND	0.0166	"										
Aroclor 1254	ND	0.0166	"										
Aroclor 1260	ND	0.0166	"										
Total PCBs	ND	0.0166	"										
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0488</i>		<i>"</i>	<i>0.0664</i>		<i>73.5</i>	<i>30-120</i>						
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0329</i>		<i>"</i>	<i>0.0664</i>		<i>49.5</i>	<i>30-120</i>						

LCS (BG11288-BS2)		LCS										Prepared: 07/23/2021 Analyzed: 07/26/2021	
Aroclor 1016	0.301	0.0166	mg/kg wet	0.332		90.7	40-130						
Aroclor 1260	0.273	0.0166	"	0.332		82.3	40-130						
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0515</i>		<i>"</i>	<i>0.0664</i>		<i>77.5</i>	<i>30-120</i>						
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0339</i>		<i>"</i>	<i>0.0664</i>		<i>51.0</i>	<i>30-120</i>						

Batch BG11351 - EPA SW846-3510C Low Level

Blank (BG11351-BLK2)		Blank										Prepared: 07/26/2021 Analyzed: 07/27/2021	
Aroclor 1016	ND	0.0500	ug/L										
Aroclor 1221	ND	0.0500	"										
Aroclor 1232	ND	0.0500	"										
Aroclor 1242	ND	0.0500	"										
Aroclor 1248	ND	0.0500	"										
Aroclor 1254	ND	0.0500	"										
Aroclor 1260	ND	0.0500	"										
Aroclor 1262	ND	0.0500	"										
Aroclor 1268	ND	0.0500	"										
Total PCBs	ND	0.0500	"										
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.219</i>		<i>"</i>	<i>0.200</i>		<i>110</i>	<i>30-120</i>						
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.181</i>		<i>"</i>	<i>0.200</i>		<i>90.5</i>	<i>30-120</i>						



Polychlorinated Biphenyls by GC/ECD - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								RPD	Limit
Batch BG11351 - EPA SW846-3510C Low Level											
LCS (BG11351-BS2)	LCS									Prepared: 07/26/2021 Analyzed: 07/27/2021	
Aroclor 1016	1.14	0.0500	ug/L	1.00		114		40-120			
Aroclor 1260	0.990	0.0500	"	1.00		99.0		40-120			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.173</i>		<i>"</i>	<i>0.200</i>		<i>86.5</i>		<i>30-120</i>			
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.127</i>		<i>"</i>	<i>0.200</i>		<i>63.5</i>		<i>30-120</i>			
LCS Dup (BG11351-BSD2)	LCS Dup									Prepared: 07/26/2021 Analyzed: 07/27/2021	
Aroclor 1016	1.13	0.0500	ug/L	1.00		113		40-120		1.11	30
Aroclor 1260	0.983	0.0500	"	1.00		98.3		40-120		0.730	30
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.190</i>		<i>"</i>	<i>0.200</i>		<i>95.0</i>		<i>30-120</i>			
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.108</i>		<i>"</i>	<i>0.200</i>		<i>54.0</i>		<i>30-120</i>			
Batch Y1G2648 - BG11351											
Aroclor Reference (Y1G2648-	Aroclor Reference									Prepared & Analyzed: 07/26/2021	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.188</i>		<i>ug/mL</i>	<i>0.200</i>		<i>94.0</i>					
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.179</i>		<i>"</i>	<i>0.200</i>		<i>89.5</i>					



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11314 - EPA 3050B

Blank (BG11314-BLK1)	Blank	Prepared: 07/23/2021 Analyzed: 07/26/2021									
Aluminum	7.64	5.00	mg/kg wet								
Antimony	ND	2.50	"								
Arsenic	ND	1.50	"								
Barium	ND	2.50	"								
Beryllium	ND	0.050	"								
Cadmium	ND	0.300	"								
Calcium	16.3	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.400	"								
Copper	ND	2.00	"								
Iron	ND	25.0	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	1.00	"								
Potassium	19.6	5.00	"								
Selenium	ND	2.50	"								
Silver	ND	0.500	"								
Sodium	ND	50.0	"								
Thallium	ND	2.50	"								
Vanadium	ND	1.00	"								
Zinc	ND	2.50	"								

Duplicate (BG11314-DUP1)	Duplicate	*Source sample: 21G1096-04 (414_EP07_8.5) Prepared: 07/23/2021 Analyzed: 07/26/2021									
Aluminum	12800	5.48	mg/kg dry		11700				8.74	35	
Antimony	ND	2.74	"		ND					35	
Arsenic	ND	1.64	"		ND					35	
Barium	54.0	2.74	"		47.8			12.3		35	
Beryllium	ND	0.055	"		ND					35	
Cadmium	0.365	0.329	"		ND					35	
Calcium	58600	5.48	"		64900			10.3		35	
Chromium	24.5	0.548	"		21.9			11.2		35	
Cobalt	10.9	0.438	"		9.07			18.0		35	
Copper	22.1	2.19	"		20.3			8.38		35	
Iron	18100	27.4	"		16400			9.63		35	
Lead	3.42	0.548	"		3.68			7.30		35	
Magnesium	40800	5.48	"		43800			7.28		35	
Manganese	340	0.548	"		339			0.346		35	
Nickel	20.2	1.10	"		14.4			33.7		35	
Potassium	1990	5.48	"		1760			12.5		35	
Selenium	5.21	2.74	"		7.40			34.7		35	
Silver	ND	0.548	"		ND					35	
Sodium	246	54.8	"		233			5.77		35	
Thallium	ND	2.74	"		ND					35	
Vanadium	33.0	1.10	"		29.7			10.7		35	
Zinc	43.0	2.74	"		40.7			5.42		35	



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit

Batch BG11314 - EPA 3050B

Matrix Spike (BG11314-MS1)	Matrix Spike	*Source sample: 21G1096-04 (414_EP07_8.5)					Prepared: 07/23/2021 Analyzed: 07/26/2021				
Aluminum	15900	5.48	mg/kg dry	219	11700	NR	75-125	High Bias			
Antimony	ND	2.74	"	27.4	ND		75-125	Low Bias			
Arsenic	230	1.64	"	219	ND	105	75-125				
Barium	291	2.74	"	219	47.8	111	75-125				
Beryllium	0.446	0.055	"	5.48	ND	8.13	75-125	Low Bias			
Cadmium	5.81	0.329	"	5.48	ND	106	75-125				
Calcium	61600	5.48	"	110	64900	NR	75-125	Low Bias			
Chromium	51.2	0.548	"	21.9	21.9	134	75-125	High Bias			
Cobalt	69.4	0.438	"	54.8	9.07	110	75-125				
Copper	56.8	2.19	"	27.4	20.3	133	75-125	High Bias			
Iron	21500	27.4	"	110	16400	NR	75-125	High Bias			
Lead	60.8	0.548	"	54.8	3.68	104	75-125				
Magnesium	41800	5.48	"	110	43800	NR	75-125	Low Bias			
Manganese	418	0.548	"	54.8	339	143	75-125	High Bias			
Nickel	81.9	1.10	"	54.8	14.4	123	75-125				
Potassium	4160	5.48	"	110	1760	NR	75-125	High Bias			
Selenium	205	2.74	"	219	7.40	90.3	75-125				
Silver	ND	0.548	"	5.48	ND		75-125	Low Bias			
Sodium	278	54.8	"	110	233	41.1	75-125	Low Bias			
Thallium	211	2.74	"	219	ND	96.1	75-125				
Vanadium	91.5	1.10	"	54.8	29.7	113	75-125				
Zinc	115	2.74	"	54.8	40.7	135	75-125	High Bias			

Post Spike (BG11314-PS1)	Post Spike	*Source sample: 21G1096-04 (414_EP07_8.5)					Prepared: 07/23/2021 Analyzed: 07/26/2021				
Aluminum	107		ug/mL	2.00	107	25.6	75-125	Low Bias			
Antimony	0.304		"	0.250	-0.049	121	75-125				
Arsenic	2.40		"	2.00	0.011	120	75-125				
Barium	2.79		"	2.00	0.436	118	75-125				
Beryllium	0.029		"	0.0500	-0.029	58.1	75-125	Low Bias			
Cadmium	0.060		"	0.0500	0.003	114	75-125				
Calcium	579		"	1.00	592	NR	75-125	Low Bias			
Chromium	0.423		"	0.200	0.200	112	75-125				
Cobalt	0.661		"	0.500	0.083	116	75-125				
Copper	0.513		"	0.250	0.185	131	75-125	High Bias			
Iron	146		"	1.00	150	NR	75-125	Low Bias			
Lead	0.630		"	0.500	0.034	119	75-125				
Magnesium	386		"	1.00	400	NR	75-125	Low Bias			
Manganese	3.64		"	0.500	3.09	109	75-125				
Nickel	0.748		"	0.500	0.131	123	75-125				
Potassium	17.3		"	1.00	16.1	122	75-125				
Selenium	2.20		"	2.00	0.067	107	75-125				
Silver	-0.016		"	0.0500	-0.055		75-125	Low Bias			
Sodium	2.54		"	1.00	2.12	42.2	75-125	Low Bias			
Thallium	2.27		"	2.00	-0.104	114	75-125				
Vanadium	0.864		"	0.500	0.271	119	75-125				
Zinc	0.906		"	0.500	0.372	107	75-125				



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11314 - EPA 3050B

Reference (BG11314-SRM1)	Reference	Prepared: 07/23/2021 Analyzed: 07/26/2021									
Aluminum	9230	5.00	mg/kg wet	8190		113	50.5-150.1				
Antimony	75.0	2.50	"	110		68.1	19-251.7				
Arsenic	173	1.50	"	162		107	70.1-129.8				
Barium	159	2.50	"	138		115	75-125				
Beryllium	167	0.050	"	157		106	75-125.2				
Cadmium	149	0.300	"	135		111	74.8-125.2				
Calcium	5250	5.00	"	4790		110	72.7-127.5				
Chromium	123	0.500	"	117		105	70.1-129.9				
Cobalt	111	0.400	"	92.6		120	75-125				
Copper	156	2.00	"	143		109	75.3-125.3				
Iron	14500	25.0	"	15100		96.3	35.8-164.6				
Lead	76.4	0.500	"	77.6		98.5	70-130				
Magnesium	2560	5.00	"	2320		110	61.7-137.8				
Manganese	377	0.500	"	319		118	78.1-122				
Nickel	99.3	1.00	"	79.9		124	70.1-130.1				
Potassium	2380	5.00	"	2050		116	59.1-140.9				
Selenium	155	2.50	"	172		90.1	55.7-144.5				
Silver	23.3	0.500	"	24.7		94.4	69.2-130.8				
Sodium	116	50.0	"	137		84.8	36.1-163.3				
Thallium	90.6	2.50	"	88.0		103	65.3-146.8				
Vanadium	101	1.00	"	99.9		102	67-133.1				
Zinc	338	2.50	"	312		108	69.9-130.1				

Batch BG11372 - EPA 3015A

Blank (BG11372-BLK1)	Blank	Prepared & Analyzed: 07/26/2021									
Aluminum	ND	0.0556	mg/L								
Barium	ND	0.0278	"								
Calcium	ND	0.0556	"								
Chromium	ND	0.00556	"								
Cobalt	ND	0.00444	"								
Copper	ND	0.0222	"								
Iron	ND	0.278	"								
Lead	ND	0.00556	"								
Magnesium	ND	0.0556	"								
Manganese	ND	0.00556	"								
Nickel	ND	0.0111	"								
Potassium	0.0795	0.0556	"								
Silver	ND	0.00556	"								
Sodium	ND	0.556	"								
Vanadium	ND	0.0111	"								
Zinc	ND	0.0278	"								



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11372 - EPA 3015A

LCS (BG11372-BS1)	LCS	Prepared & Analyzed: 07/26/2021									
Aluminum	2.09	ug/mL	2.00	105	80-120						
Barium	2.10	"	2.00	105	80-120						
Calcium	1.11	"	1.00	111	80-120						
Chromium	0.209	"	0.200	105	80-120						
Cobalt	0.528	"	0.500	106	80-120						
Copper	0.256	"	0.250	102	80-120						
Iron	1.07	"	1.00	107	80-120						
Lead	0.535	"	0.500	107	80-120						
Magnesium	1.06	"	1.00	106	80-120						
Manganese	0.520	"	0.500	104	80-120						
Nickel	0.508	"	0.500	102	80-120						
Potassium	1.10	"	1.00	110	80-120						
Silver	0.0542	"	0.0500	108	80-120						
Sodium	0.769	"	1.00	76.9	80-120			Low Bias			
Vanadium	0.505	"	0.500	101	80-120						
Zinc	0.500	"	0.500	100	80-120						



Metals by ICP/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag		
Batch BG11366 - EPA 3015A													
Blank (BG11366-BLK1)	Blank							Prepared & Analyzed: 07/26/2021					
Antimony	ND	1.11	ug/L										
Arsenic	ND	1.11	"										
Beryllium	ND	0.333	"										
Cadmium	ND	0.556	"										
Selenium	ND	1.11	"										
Thallium	ND	1.11	"										
LCS (BG11366-BS1)	LCS							Prepared & Analyzed: 07/26/2021					
Antimony	52.5		ug/L	50.0		105	80-120						
Arsenic	50.1		"	50.0		100	80-120						
Beryllium	54.1		"	50.0		108	80-120						
Cadmium	53.6		"	50.0		107	80-120						
Selenium	53.2		"	50.0		106	80-120						
Thallium	53.2		"	50.0		106	80-120						
Duplicate (BG11366-DUP1)	Duplicate	*Source sample: 21G0973-04 (Duplicate)							Prepared: 07/26/2021 Analyzed: 07/27/2021				
Antimony	ND	1.11	ug/L		ND						20		
Arsenic	ND	1.11	"		ND						20		
Beryllium	ND	0.333	"		ND						20		
Cadmium	ND	0.556	"		ND						20		
Selenium	6.38	1.11	"		6.65				4.21		20		
Thallium	ND	1.11	"		ND						20		
Matrix Spike (BG11366-MS1)	Matrix Spike	*Source sample: 21G0973-04 (Matrix Spike)							Prepared: 07/26/2021 Analyzed: 07/27/2021				
Antimony	52.2		ug/L	50.0	0.108	104	75-125						
Arsenic	52.9		"	50.0	0.387	105	75-125						
Beryllium	40.7		"	50.0	0.017	81.4	75-125						
Cadmium	51.2		"	50.0	0.122	102	75-125						
Selenium	54.7		"	50.0	5.99	97.3	75-125						
Thallium	50.1		"	50.0	0.112	100	75-125						



Mercury by EPA 7000/200 Series Methods - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG11315 - EPA 7473 soil											
Blank (BG11315-BLK1)	Blank								Prepared & Analyzed: 07/23/2021		
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BG11315-DUP1)	Duplicate								Prepared & Analyzed: 07/23/2021		
Mercury	ND	0.0329	mg/kg dry		ND					35	
Matrix Spike (BG11315-MS1)	Matrix Spike								Prepared & Analyzed: 07/23/2021		
Mercury	0.442		mg/kg	0.500	0.00290	87.8	75-125				
Reference (BG11315-SRM1)	Reference								Prepared & Analyzed: 07/23/2021		
Mercury	26.062		mg/kg	27.2		95.8	59.9-140.1				
Batch BG11388 - EPA SW846-7470A											
Blank (BG11388-BLK1)	Blank								Prepared & Analyzed: 07/26/2021		
Mercury	ND	0.0002	mg/L								
Blank (BG11388-BLK2)	Blank								Prepared & Analyzed: 07/26/2021		
Mercury	ND	0.0002	mg/L								
LCS (BG11388-BS1)	LCS								Prepared & Analyzed: 07/26/2021		
Mercury	0.002162	0.0002	mg/L	0.00200		108	80-120				
LCS (BG11388-BS2)	LCS								Prepared & Analyzed: 07/26/2021		
Mercury	0.002084	0.0002	mg/L	0.00200		104	80-120				



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG11258 - Analysis Preparation											
Blank (BG11258-BLK1)	Blank										Prepared & Analyzed: 07/22/2021
Chromium, Hexavalent	ND	0.0100	mg/L								
LCS (BG11258-BS1)	LCS										Prepared & Analyzed: 07/22/2021
Chromium, Hexavalent	0.512	0.0100	mg/L	0.500		102	80-120				
Duplicate (BG11258-DUP1)	Duplicate *Source sample: 21G1099-01 (Duplicate)										Prepared & Analyzed: 07/22/2021
Chromium, Hexavalent	ND	0.0100	mg/L		ND						20
Matrix Spike (BG11258-MS1)	Matrix Spike *Source sample: 21G1099-01 (Matrix Spike)										Prepared & Analyzed: 07/22/2021
Chromium, Hexavalent	0.448	0.0100	mg/L	0.500	ND	89.6	75-125				
Batch BG11305 - EPA SW846-3060											
Blank (BG11305-BLK1)	Blank										Prepared & Analyzed: 07/23/2021
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Duplicate (BG11305-DUP1)	Duplicate *Source sample: 21G0964-02 (Duplicate)										Prepared & Analyzed: 07/23/2021
Chromium, Hexavalent	ND	0.585	mg/kg dry		ND						35
Matrix Spike (BG11305-MS1)	Matrix Spike *Source sample: 21G0964-02 (Matrix Spike)										Prepared & Analyzed: 07/23/2021
Chromium, Hexavalent	24.4	0.585	mg/kg dry	23.4	ND	104	75-125				
Reference (BG11305-SRM1)	Reference										Prepared & Analyzed: 07/23/2021
Chromium, Hexavalent	75.3		mg/L	109		69.1	30-169.7				
Batch BG11337 - Analysis Preparation											
Blank (BG11337-BLK1)	Blank										Prepared & Analyzed: 07/24/2021
Cyanide, total	ND	0.0100	mg/L								



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG11337 - Analysis Preparation											
LCS (BG11337-BS1)	LCS								Prepared & Analyzed: 07/24/2021		
Cyanide, total	0.181	0.0100	mg/L	0.200		90.5	76.2-107				
Duplicate (BG11337-DUP1)	Duplicate		*Source sample: 21G0977-02 (Duplicate)						Prepared & Analyzed: 07/24/2021		
Cyanide, total	ND	0.0100	mg/L		ND					15	
Matrix Spike (BG11337-MS1)	Matrix Spike		*Source sample: 21G0977-02 (Matrix Spike)						Prepared & Analyzed: 07/24/2021		
Cyanide, total	0.198	0.0100	mg/L	0.200	ND	98.8	79-105				
Batch BG11354 - EPA SW846-3060											
Blank (BG11354-BLK1)	Blank								Prepared & Analyzed: 07/26/2021		
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Duplicate (BG11354-DUP1)	Duplicate		*Source sample: 21G1096-04 (414_EP07_8.5)						Prepared & Analyzed: 07/26/2021		
Chromium, Hexavalent	ND	0.548	mg/kg dry		0.395					35	
Matrix Spike (BG11354-MS1)	Matrix Spike		*Source sample: 21G1096-04 (414_EP07_8.5)						Prepared & Analyzed: 07/26/2021		
Chromium, Hexavalent	18.7	0.548	mg/kg dry	21.9	0.395	83.6	75-125				
Matrix Spike (BG11354-MS2)	Matrix Spike		*Source sample: 21G1096-04 (414_EP07_8.5)						Prepared & Analyzed: 07/26/2021		
Chromium, Hexavalent	18.3	0.548	mg/kg dry	21.9	0.395	81.6	75-125				
Reference (BG11354-SRM1)	Reference								Prepared & Analyzed: 07/26/2021		
Chromium, Hexavalent	74.5		mg/L	109		68.4	30-169.7				
Batch BG11355 - Analysis Preparation Soil											
Blank (BG11355-BLK1)	Blank								Prepared & Analyzed: 07/26/2021		
Cyanide, total	ND	0.500	mg/kg wet								



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BG11355 - Analysis Preparation Soil												
Duplicate (BG11355-DUP1)	Duplicate	*Source sample: 21G1096-04 (414_EP07_8.5)						Prepared & Analyzed: 07/26/2021				
Cyanide, total	ND	0.548	mg/kg dry		ND						15	
Matrix Spike (BG11355-MS1)	Matrix Spike	*Source sample: 21G1096-04 (414_EP07_8.5)						Prepared & Analyzed: 07/26/2021				
Cyanide, total	4.21	0.548	mg/kg dry	11.0	ND	38.4	79.6-107	Low Bias				
Reference (BG11355-SRM1)	Reference							Prepared & Analyzed: 07/26/2021				
Cyanide, total	106		ug/mL	91.9		115	42.22-159.96					



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG11338 - % Solids Prep

Duplicate (BG11338-DUP1)	Duplicate	*Source sample: 21G1096-04 (414_EP07_8.5)						Prepared: 07/24/2021 Analyzed: 07/26/2021			
% Solids	93.5	0.100	%		91.2				2.41	20	



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
21G1096-01	414_EP01_8.5	40mL Vial with Stir Bar-Cool 4° C
21G1096-02	414_EP06_8.5	40mL Vial with Stir Bar-Cool 4° C
21G1096-03	414_EP02_8.5	40mL Vial with Stir Bar-Cool 4° C
21G1096-04	414_EP07_8.5	40mL Vial with Stir Bar-Cool 4° C
21G1096-05	SO_DUP01_072221	40mL Vial with Stir Bar-Cool 4° C
21G1096-06	SO_FB01_072221	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21G1096-07	TB01_072221	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
ICV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
M-BLK	The target analyte was detected above the RL in the batch method blank. All samples showed >10x the concentration in the blank for this analyte. Data are reported.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
M-CCV1	The recovery for this element in the Continuing Calibration Verification (CCV) exceeded 110% of the expected value. Positive detections may be biased high.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.
S-08	The recovery of this surrogate was outside of QC limits.
M-SRD1	The serial dilution for this element was outside control limits.
PF-CCV-H	The CCV recovery was slightly above acceptable limits for the qualified compound. However, sample results are not biased high because results are corrected for isotope recovery.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PTel-VAR	This fluorotelomer acid is known to be unstable in mixtures of standards due to dehydrofluorination and formation of methoxy adducts. The data user should take note. These issues create variability in CCVs, LCs and MSs.
QC-LCS	LCS/LCS Dup recovery was above laboratory control limits. Sample does not contain any target compounds; therefore sample results are acceptable.
QL-02	This LCS analyte is outside Laboratory Recovery limits due to the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
M-CRL	The RL check for this element recovered outside of control limits.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.



- Reported to** This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
- NR** Not reported
- RPD** Relative Percent Difference
- Wet** The data has been reported on an as-received (wet weight) basis
- Low Bias** Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias** High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir.** Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



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Field Chain-of-Custody Record

YORK Project No.

21G1096

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

Page 1 of 1

YOUR INFORMATION		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company: <u>Longan Engineering</u>	Company: _____	Company: _____	Company: _____	Company: _____	Company: _____	Company: _____	Company: _____	RUSH - Next Day	<input checked="" type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> Standard (5-7 Day)
Address: <u>300 West 31st Street</u>	Address: _____	Address: _____	Address: _____	Address: _____	Address: _____	Address: _____	Address: _____		
City/State: <u>Brooklyn, NY NY 10001</u>	City/State: _____	City/State: _____	City/State: _____	City/State: _____	City/State: _____	City/State: _____	City/State: _____		
Phone: <u>212-499-5400</u>	Phone: _____	Phone: _____	Phone: _____	Phone: _____	Phone: _____	Phone: _____	Phone: _____		
Contact: <u>Kirbach Simon</u>	Contact: _____	Contact: _____	Contact: _____	Contact: _____	Contact: _____	Contact: _____	Contact: _____		
E-mail: <u>ksimon@longan.com</u>	E-mail: _____	E-mail: _____	E-mail: _____	E-mail: _____	E-mail: _____	E-mail: _____	E-mail: _____		

YOUR Project Name
 419/444 Gerard Ave

YOUR POB:

Matrix Codes	Matrix	Sample Matrix	Sample Identification	Sample Date/Time	Sample Location	Summary Report	Report / EDD Type (circle selections)	YORK Reg. Comp.
S - soil / solid						CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
GW - groundwater						QA Report	EQUS (Standard)	
DW - drinking water						NY ASP A Package	NYSDEC EQUS	
WW - wastewater						NY ASP B Package	NJDEP SRP HazSite	
O - Oil							Other:	

Sample Identification	Sample Matrix	Sample Date/Time	Sample Location	Analysis Requested	Container Description
414-EP01-8.5	S	7/22/21	1055	TEL/PA 17 3 75 VOCs & SVCS	
414-EP06-8.5	I	7/22/21	1100	PCBS, Pesticides, metals including	
414-EP02-8.5	I	7/22/21	1105	Styrene, hex, Trichloroethylene, p	
414-EP07-8.5	I	7/22/21	1110	Perfluoro, PFA's, 1,4-Dioxane	
50-DUP02-072221	S	7/22/21		41 EPA 7-8.5 as instructed	
50-FB02-072221	W	7/22/21	1121		
TB02-072221	W	7/22/21		TEL/PA 17 3 75 VOCs	

Comments: Please email jessmail@longan.com or data.management@longan.com

Preservation: (check all that apply)	Special Instruction
HCl _____ MeOH _____ HNO3 _____ H2SO4 _____ NaOH _____ ZnAc _____	Field Filtered _____ Lab to Filter _____
Ascorbic Acid _____ Other: _____	

Samples Relinquished by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Jacob Menken Longan	7/22/21 1647	Longan York	7/22/21
Paul	7/22/21 1800	Longan York	7/22/21

Samples Received in LAB by	Date/Time	Temp. Received at Lab
7922-7622/21	1923	1.9

APPENDIX L
Data Usability Summary Report

989 Lenox Drive Lawrenceville, NJ 08648 T: 609.282.8000
Mailing Address: 989 Lenox Drive Lawrenceville, NJ 08648

To: Lamees Esmail, Langan Senior Staff Engineer

From: Joe Conboy, Langan Staff Chemist

Date: September 13, 2021

Re: Data Usability Summary Report
For 414 Gerard Avenue
July and August 2021 Soil Samples
Langan Project No.: 170488401

This memorandum presents the findings of an analytical data validation from the analysis of soil samples collected in July and August 2021 by Langan Engineering and Environmental Services at 414 Gerard Avenue. The samples were analyzed by York Analytical Laboratories, Inc. (NYSDOH NELAP registration # 10854 and 12058) for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), per- and polyfluoroalkyl substances (PFAS), herbicides, polychlorinated biphenyls (PCBs), pesticides, metals, cyanide (CN), hexavalent chromium (CrVI), and trivalent chromium (CrIII) by the methods specified below.

- VOCs by SW-846 Method 8260C
- SVOCs by SW-846 Method 8270D
- PFAS by USEPA Method 537M
- PCBs by SW-846 Method 8082A
- Pesticides by SW-846 Method 8081B
- Metals by SW-846 Methods 6010D/7471B
- Cyanide by SW-846 Method 9012B
- Hexavalent Chromium by SW-846 Method 7196A
- Trivalent Chromium (calculated)

Table 1, attached, summarizes the laboratory and client sample identification numbers, sample collection dates, level of data validation, and analytical parameters subject to review.

Validation Overview

This data validation was performed in accordance with the following guidelines, where applicable:

- USEPA Region II Standard Operating Procedures (SOPs) for Data Validation
- USEPA Contract Laboratory Program "National Functional Guidelines for Organic Superfund Methods Data Review" (EPA 540- R-20-005, November 2020)

Technical Memorandum

- USEPA Contract Laboratory Program “National Functional Guidelines for Inorganic Superfund Methods Data Review” (EPA 540- R-20-005, November 2020), and
- published analytical methodologies.

USEPA Method 537 was developed and validated for the analysis of finished drinking water from surface water and groundwater sources. Laboratories have modified Method 537 to enable the analysis of groundwater and soil, and to incorporate PFAS analytes not currently addressed by the promulgated method. NYSDOH offers certification for PFOA and PFOS in the drinking water category. Non-potable water and soil certification is not available; however, the method describes acceptable modifications. USEPA recommends that modified methods be assessed relative to project goals and data quality objectives.

The following acronyms may be used in the discussion of data-quality issues:

%D	Percent Difference	MB	Method Blank
CCV	Continuing Calibration Verification	MDL	Method Detection Limit
FB	Field Blank	MS	Matrix Spike
FD	Field Duplicate	MSD	Matrix Spike Duplicate
ICAL	Initial Calibration	RF	Response Factor
ICV	Initial Calibration Verification	RL	Reporting Limit
ISTD	Internal Standard	RPD	Relative Percent Difference
LCL	Lower Control Limit	RSD	Relative Standard Deviation
LCS	Laboratory Control Sample	TB	Trip Blank
LCSD	Laboratory Control Sample Duplicate	UCL	Upper Control Limit

Tier 1 data validation is based on completeness and compliance checks of sample-related QC results including: sample receipt documentation; analytical holding times; sample preservation; blank results (method, field, and trip); surrogate recoveries; MS/MSD recoveries and RPDs values; field duplicate RPDs, laboratory duplicate RPDs, and LCS/LCSD recoveries and RPDs

Tier 2 data validation consists of sample-related QC results from the Tier 1 validation plus instrument-related QC results including: instrument tuning; initial and continuing calibration; internal standard recovery; interference check standards; serial dilution; post-digestion spike recoveries; isotope dilutions; and RPDs between primary and secondary columns.

Of the seven (7) sample delivery group (SDG) packages received for this project, Tier 1 data validation (equivalent to USEPA’s Stage 2A validation) was performed on six (6) SDGs (80% of validated field samples) and Tier 2 data validation (equivalent to USEPA’s Stage 2B validation) was performed on one (1) SDGs (20% of validated field samples) to evaluate data quality.

Technical Memorandum

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA guidelines and our best professional judgment:

- R** – The sample results are unusable because certain criteria were not met when generating the data. The analyte may or may not be present in the sample.
- J** – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ** – The analyte was not detected at a level greater than or equal to the reporting limit; however, the reported reporting limit is approximate and may be inaccurate or imprecise.
- U** – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.
- NJ** – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned, these qualifiers should supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items specified for review. Data that is qualified as "R" are considered invalid and are not technically usable for data interpretation. Data that is otherwise qualified because of minor data-quality anomalies are usable, as qualified in Table 2 (attached).

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. No major deficiencies were identified.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. The section below describes the minor deficiencies that were identified.

VOCs by SW-846 Method 8260C

21G1253

The LCS/LCSD for batch BG11647 exhibited percent recoveries below the LCL for cyclohexane (68.8%, 68.5%), tert-butylbenzene (79.5%, 76.4%), tert-butyl alcohol (63%), and trichloroethylene (82.3%). The associated results in samples 414_EP03_9.8_20210727 and 414_EP08_8.5_20210727 are qualified as UJ because of potential low bias.

Technical Memorandum

21G1434

The LCS/LCSD for batch BH10074 exhibited percent recoveries below the LCL for tetrachloroethylene (74.5%), tert-butyl alcohol (64.8%), trichloroethylene (80.1%), hexachlorobutadiene (75.3%, 82%), and t-butylbenzene (75.8%). The associated results in sample 414_EP13_8.5 are qualified as UJ because of potential low bias.

21H0134

The ICV analyzed on 6/1/2021 at 19:23 exhibited %Ds above the control limit for acrolein (65.1%) and dichlorodifluoromethane (35.5%). The associated results in samples 414_EP11_8.5 and 414_EP16_8.5 are qualified as UJ because of potential indeterminate bias.

The CCV analyzed on 8/4/2021 at 10:10 exhibited %Ds above the control limit for acrolein (-43.6%) and trichlorofluoromethane (26.4%). The associated results in samples 414_EP11_8.5 and 414_EP16_8.5 are qualified as UJ because of potential indeterminate bias.

The CCV analyzed on 8/4/2021 at 10:10 exhibited a RF below the control limit for trichloroethylene (0.19). The associated results in samples 414_EP11_8.5 and 414_EP16_8.5 are qualified as UJ because of potential indeterminate bias.

SVOCs by SW-846 Method 8270D

21H0134

The ICAL for instrument BNA #1 exhibited RSDs above the control limit for 2,4-dinitrophenol (25.8%) and 4,6-dinitro-2-methylphenol (21.4%). The associated results in samples 414_EP11_8.5 and 414_EP16_8.5 are qualified as UJ because of potential indeterminate bias.

The CCV analyzed on 8/6/2021 at 08:54 exhibited %Ds above the control limit for 2,4-dinitrophenol (81.7%), 2-nitrophenol (29%), 4,6-dinitro-2-methylphenol (52%), benzo(a)pyrene (20.5%), bis(2-ethylhexyl)phthalate (25.2%), and di-n-octyl phthalate (53.1%). The associated results in samples 414_EP11_8.5 and 414_EP16_8.5 are qualified as UJ because of potential indeterminate bias.

The CCV analyzed on 8/6/2021 at 08:54 exhibited a RF below the control limit for hexachlorobenzene (0.097). The associated results in samples 414_EP11_8.5 and 414_EP16_8.5 are qualified as UJ because of potential indeterminate bias.

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21H0486

The LCS for batch BH10583-BS1 exhibited a percent recovery below the LCL for benzoic acid (6.88%). The associated results in samples 414_EP09_14.5, 414_EP14_14.5, and 414_EP19_17.5 are qualified as UJ because of potential low bias.

PCBs by SW-846 Method 8082A

21H0486

The sample 414_EP19_17.5 exhibited a percent recovery below the LCL for the surrogate decachlorobiphenyl (28.5%). The associated results are qualified as UJ because of potential low bias.

PFAS by USEPA Method 537M

21G1096

The sample 414_EP07_8.5 exhibited a percent recovery above the UCL for the isotope dilution standard m2-8:2 fts (228%). The associated results are qualified as UJ because of potential high bias.

21G1434

The sample 414_EP13_8.5 exhibited percent recoveries above the UCL for the isotope dilution standard sodium 1h,1h,2h,2h-perfluoro-1-[1,2-13c2]-octane sulfonate (6:2) (244%) and sodium 1h,1h,2h,2h-perfluoro-1-[1,2-13c2]-decane sulfonate (8:2) (378%). The associated results are qualified as UJ because of potential high bias.

The sample 414_EP18_8.5 exhibited a percent recovery above the UCL for the isotope dilution standard sodium 1h,1h,2h,2h-perfluoro-1-[1,2-13c2]-decane sulfonate (8:2) (211%). The associated results are qualified as UJ because of potential high bias.

21H0134

The ICV analyzed on 7/26/2021 at 23:40 exhibited a %D above the control limit for 1h,1h,2h,2h-perfluorodecanesulfonic acid (8:2 fts) (39.3%). The associated results in samples 414_EP11_8.5 and 414_EP16_8.5 are qualified as UJ because of potential indeterminate bias.

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Metals by SW-846 Method 6010D

21G1096

The MS/MSD performed on sample 414_EP07_8.5 exhibited percent recoveries above the UCL for copper (133%), chromium, total (134%), zinc (135%), and manganese (143%). The associated results in sample 414_EP07_8.5 are qualified as J because of potential high bias.

The MS/MSD performed on sample 414_EP07_8.5 exhibited percent recoveries below the LCL for antimony (0%), silver (0%), beryllium (8.13%), and sodium (41.1%). The associated results in sample 414_EP07_8.5 are qualified as UJ because of potential low bias.

The serial dilution performed on sample 414_EP07_8.5 exhibited RPDs above the control limit for cobalt (12.8%), nickel (30.9%), selenium (542%), and zinc (11%). The associated results are qualified as J because of potential indeterminate bias.

The post-digestion spike performed on sample 414_EP07_8.5 exhibited percent recoveries below the LCL for sodium (42.2%), beryllium (58.1%), and silver (nc%). The associated results in sample 414_EP07_8.5 are qualified as J or UJ because of potential low bias.

The post-digestion spike performed on sample 414_EP07_8.5 exhibited a percent recovery above the UCL for copper (131%). The associated results in sample 414_EP07_8.5 are qualified as J because of potential high bias.

21G1253

The MS performed on sample 414_EP08_8.5 exhibited percent recoveries below the LCL for silver (53.1%), antimony (17.8%), and beryllium (73.9%). The associated results in sample 414_EP08_8.5 are qualified as UJ because of potential low bias.

The post-digestion spike performed on sample 414_EP08_8.5 exhibited a percent recovery below the LCL for silver (11%). The associated results in sample 414_EP08_8.5 are qualified as UJ because of potential low bias.

The serial dilution performed on sample 414_EP08_8.5 exhibited RPDs above the control limit for barium (11.1%), chromium (15.8%), selenium (587%), and zinc (16%). The associated results are qualified as J because of potential indeterminate bias.

Technical Memorandum

21G1434

The MS performed on sample 414_EP04_13 exhibited a percent recovery below the LCL for antimony (36%). The associated results in sample 414_EP04_13 are qualified as UJ because of potential low bias.

The post-digestion spike performed on sample BH10013-PS1 exhibited a percent recovery below the LCL for silver (53.1%). The associated results in sample 414_EP04_13 are qualified as UJ because of potential low bias.

The serial dilution performed on sample 414_EP04_13 exhibited RPDs above the control limit for barium (14.2%), calcium (11.8%), cobalt (14.9%), manganese (10.1%), nickel (30%), potassium (15%), and zinc (31%). The associated results are qualified as J because of potential indeterminate bias.

21H0134

The CCV analyzed on 8/5/2021 at 12:52 exhibited a %R below the control limit for antimony (84%). The associated results in samples 414_EP11_8.5 and 414_EP16_8.5 are qualified as J because of potential low bias.

21H0655

The MS performed on sample 414_EP05_13 exhibited percent recoveries below the LCL for aluminum (-303%), antimony (22.7%), beryllium (43.9%), chromium, total (70.6%), iron (-744%), manganese (11.2%), potassium (70.7%), silver (23.6%), sodium (39.2%), and zinc (69.9%). The associated results in sample 414_EP05_13 are qualified as J or UJ because of potential low bias.

The MS performed on sample 414_EP05_13 exhibited percent recoveries above the UCL for calcium (4350%) and magnesium (2310%). The associated results in sample 414_EP05_13 are qualified as J because of potential high bias.

The post-digestion spike performed on sample 414_EP05_13 exhibited percent recoveries below the LCL for beryllium (61.5%), calcium (-703%), iron (-38.5%), magnesium (-356%), and silver (64.8%). The associated results in sample 414_EP05_13 are qualified as J or UJ because of potential low bias.

21H0719

The MS performed on sample 414_EP10_14.5 exhibited percent recoveries below the LCL for aluminum (20.1%), antimony (16.9%), and silver (72%). The associated results in sample 414_EP10_14.5 are qualified as J or UJ because of potential low bias.

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The MS performed on sample 414_EP10_14.5 exhibited percent recoveries above the UCL for calcium (16400%), copper (135%), iron (519%), magnesium (7360%), manganese (148%), and potassium (276%). The associated results in sample 414_EP10_14.5 are qualified as J because of potential high bias.

The post-digestion spike performed on sample 414_EP10_14.5 exhibited percent recoveries above the UCL for aluminum (139%) and potassium (133%). The associated results in sample 414_EP10_14.5 are qualified as J because of potential high bias.

The post-digestion spike performed on sample 414_EP10_14.5 exhibited percent recoveries below the LCL for calcium (-161%), iron (49%), and magnesium (-711%). The associated results in sample 414_EP10_14.5 are qualified as J because of potential low bias.

The laboratory duplicate and parent sample (414_EP10_14.5) exhibited RPDs above the control limit for cobalt (73%) and potassium (35.8%). The associated results are qualified as J because of potential indeterminate bias.

Cyanide by SW-846 Method 9014/9010C

21G1096

The MS performed on sample 414_EP07_8.5 exhibited a percent recovery below the LCL for total cyanide (38.4%). The associated results in sample 414_EP07_8.5 are qualified as UJ because of potential low bias.

21H0134

The MS performed on sample 414_EP16_8.5 exhibited a percent recovery below the LCL for cyanide (78.4%). The associated results in sample 414_EP16_8.5 are qualified as UJ because of potential low bias.

OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. The section below describes the other deficiencies that were identified.

VOCs by SW-846 Method 8260C

21G1096

The LCS for batch BG11334 exhibited percent recoveries above the UCL for 1,1,1,2-tetrachloroethane (133%), bromodichloromethane (129%), tert-butyl alcohol (145%), and

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hexachlorobutadiene (147%). The associated results are non-detect. No qualification is necessary.

The MS/MSD performed on sample 414_EP07_8.5 exhibited a percent recovery below the LCL for cyclohexane (60%, 66.1%). Organic results are not qualified on the basis of MS/MSD recoveries alone. No qualification is necessary.

21G1434

The LCS/LCSD for batch BH10072 exhibited percent recoveries above the UCL for bromomethane (192%, 199%) and 1,1,2,2-tetrachloroethane (134%, 134%). The associated results are non-detect. No qualification is necessary.

The LCS/LCSD for batch BH10074 exhibited percent recoveries above the UCL for bromomethane (181%) and 1,1,2,2-tetrachloroethane (130%). The associated results are non-detect. No qualification is necessary.

21H0134

The MB for batch BH10231-BLK2 exhibited a detection of 1,2-dichloroethane (0.0038 mg/kg). The associated results are non-detect. No qualification is necessary.

The LCS/LCSD for batch BH10231-BS1&BSD1 exhibited percent recoveries above the UCL for carbon disulfide (141%, 148%), tert-butyl alcohol (137%, 152%), and trichlorofluoromethane (143%). The associated results are non-detect. No qualification is necessary.

21H0486

The LCS/LCSD for batch BH10701-BS1&BSD1 exhibited percent recoveries above the UCL for bromomethane (197%, 182%), chloroethane (154%, 150%), and tert-butyl alcohol (130%, 142%). The associated results are non-detect. No qualification is necessary.

21H0655

The LCSD for batch BH10830-BSD1 exhibited a percent recovery above the UCL for tert-butyl alcohol (144%). The associated results are non-detect. No qualification is necessary.

21H0719

The LCS/LCSD for batch BH10924-BS1&BSD1 exhibited percent recoveries above the UCL for bromomethane (194%, 181%), chloroethane (155%, 151%), and tert-butyl alcohol (159%, 143%). The associated results are non-detect. No qualification is necessary.

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SVOCs by SW-846 Method 8270D

21G1096

The MS/MSD performed on sample 414_EP07_8.5 exhibited a percent recovery above the UCL for 3,3-dichlorobenzidine (163%). Organic results are not qualified on the basis of MS/MSD recoveries alone. No qualification is necessary.

21H0134

The LCS for batch BH10261-BS1 exhibited a percent recovery above the UCL for 3,3'-dichlorobenzidine (190%). The associated results are non-detect. No qualification is necessary.

21H0719

The MS/MSD performed on sample 414_EP10_14.5 exhibited percent recoveries below the LCL for 1,4-dioxane (27.2%, 18.2%), 2,4-dinitrophenol (59.9%), benzoic acid (8.16%, 20.2%), hexachlorocyclopentadiene (83.6%), and phenol (87.1%). Organic results are not qualified on the basis of MS/MSD recoveries alone. No qualification is necessary.

The MS/MSD performed on sample 414_EP10_14.5 exhibited a percent recovery above the UCL for 3,3'-dichlorobenzidine (175%). Organic results are not qualified on the basis of MS/MSD recoveries alone. No qualification is necessary.

The MS/MSD performed on sample 414_EP10_14.5 exhibited RPDs above the control limit for 2,4-dinitrophenol (37.2%), benzoic acid (84.7%), hexachlorocyclopentadiene (33%), and phenol (30.8%). Organic results are not qualified on the basis of MS/MSD recoveries alone. No qualification is necessary.

The MS/MSD performed on sample 414_EP20_17.5 exhibited a RPD above the control limit for 1,4-dioxane (p-dioxane) (39.6%). Organic results are not qualified on the basis of MS/MSD recoveries alone. No qualification is necessary.

Pesticides by SW-846 Method 8081B

21G1096

The MS/MSD performed on sample 414_EP07_8.5 exhibited a RPD above the control limit for 4,4'-dde (35.9%). Organic results are not qualified on the basis of MS/MSD recoveries alone. No qualification is necessary.

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21G1434

The LCS for batch BH10067 exhibited percent recoveries above the UCL for heptachlor epoxide (150%), beta endosulfan (157%), cis-chlordane (142%), gamma-chlordane (145%), dieldrin (150%), heptachlor (148%), and alpha endosulfan (158%). The associated results are non-detect. No qualification is necessary.

The LCS for batch BH10067 exhibited percent recoveries above the UCL for 4,4'-ddd (144%) and beta-bhc (149%). No associated results are reported from the corresponding column. No qualification is necessary.

PFAS by EPA Method 537

21G1096

The LCS/LCSD for batch BG11344 exhibited a percent recovery above the UCL for 1h,1h, 2h, 2h-perfluorodecane sulfonic acid (224%). The associated results are non-detect. No qualification is necessary.

The MS/MSD performed on sample 414_EP07_8.5 exhibited a percent recovery above the UCL for 1h,1h,2h,2h-perfluorodecanesulfonic acid (8:2 fts) (240%). Organic results are not qualified on the basis of MS/MSD recoveries alone. No qualification is necessary.

21G1253

The LCS for batch BG11568 exhibited a percent recovery above the UCL for 1h,1h, 2h, 2h-perfluorodecane sulfonic acid (242%). The associated results are non-detect. No qualification is necessary.

21G1434

The LCS for batch BH10127 exhibited a percent recovery above the UCL for 1h,1h, 2h, 2h-perfluorodecane sulfonic acid (209%). The associated results are non-detect. No qualification is necessary.

The MS/MSD performed on sample 414_EP13_8.5 exhibited a percent recovery above the UCL for 1h,1h, 2h, 2h-perfluorodecane sulfonic acid (225%, 224%). Organic results are not qualified on the basis of MS/MSD recoveries alone. No qualification is necessary.

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21H0134

The LCS for batch BH10192-BS1 exhibited percent recoveries above the UCL for perfluoroheptane sulfonate (pfhps) (132%) and sodium 1h,1h,2h,2h-perfluorodecane sulfonate (8:2) (246%). The associated results are non-detect. No qualification is necessary.

21H0655

The LCS for batch BH10744-BS1 exhibited a percent recovery above the UCL for 1h,1h, 2h, 2h-perfluorodecane sulfonic acid (205%). The associated results are non-detect. No qualification is necessary.

21H0719

The LCS for batch BH10887-BS1 exhibited percent recoveries above the UCL for 1h,1h, 2h, 2h-perfluorodecane sulfonic acid (223%), perfluorobutanesulfonic acid (pfbs) (192%), perfluoroheptanesulfonic acid (pfhps) (130%), and perfluoropentanoic acid (pfpea) (191%). The associated results are non-detect. No qualification is necessary.

The MS/MSD performed on sample 414_EP15_14.5 exhibited percent recoveries above the UCL for 1h,1h, 2h, 2h-perfluorodecane sulfonic acid (222%, 230%), 1h,1h, 2h, 2h-perfluorooctane sulfonic acid (207%), and perfluorohexanoic acid (pfhxa) (177%, 103%). Organic results are not qualified on the basis of MS/MSD recoveries alone. No qualification is necessary.

The MS/MSD performed on sample 414_EP15_14.5 exhibited RPDs above the control limit for 1h,1h, 2h, 2h-perfluorooctane sulfonic acid (70.1%) and perfluorohexanoic acid (pfhxa) (53.1%). Organic results are not qualified on the basis of MS/MSD recoveries alone. No qualification is necessary.

Metals by SW-846 Method 6010D

21G1096

The FB (SO_FB01_072221) exhibited detections of aluminum (0.111 mg/l), calcium (0.173 mg/l), iron (0.327 mg/l), magnesium (0.0771 mg/l), and potassium (0.201 mg/l). The associated results are >10X the contamination. No qualification is necessary.

The MB for batch BG11314 exhibited detections of aluminum (7.64 mg/kg), potassium (19.6 mg/kg), and calcium (16.3 mg/kg). The associated results are >10X the contamination. No qualification is necessary.

The MB for batch BG11372 exhibited a detection of potassium (0.0795 mg/l). The associated results are >10X the contamination. No qualification is necessary.

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The MS/MSD performed on sample 414_EP07_8.5 exhibited percent recoveries below the LCL for calcium (-3010%) and magnesium (-1860%). The associated results in the parent sample are >4X the spiked amount. No qualification is necessary.

The MS/MSD performed on sample 414_EP07_8.5 exhibited percent recoveries above the UCL for aluminum (1900%), potassium (2190%), and iron (4620%). The associated results in the parent sample are >4X the spiked amount. No qualification is necessary.

The post-digestion spike performed on sample 414_EP07_8.5 exhibited percent recoveries below the LCL for magnesium (-1400%), calcium (-1310%), iron (-354%), and aluminum (25.6%). The associated results in the parent sample are >4X the spiked amount. No qualification is necessary.

21G1253

The MB for batch BG11650 exhibited detections of potassium (5.43 mg/kg) and calcium (7.12 mg/kg). The associated results are >10X the contamination. No qualification is necessary.

The MS performed on sample 414_EP08_8.5 exhibited percent recoveries below the LCL for iron (-279%) and potassium (64.8%). The associated results in the parent sample are >4X the spiked amount. No qualification is necessary.

The MS performed on sample 414_EP08_8.5 exhibited percent recoveries above the UCL for aluminum (378%), magnesium (2960%), and calcium (3000%). The associated results in the parent sample are >4X the spiked amount. No qualification is necessary.

The post-digestion spike performed on sample 414_EP08_8.5 exhibited percent recoveries below the LCL for aluminum (27.8%), iron (-212%), magnesium (-373%), and calcium (-982%). The associated results in the parent sample are >4X the spiked amount. No qualification is necessary.

21G1434

The MS performed on sample 414_EP04_13 exhibited percent recoveries above the UCL for aluminum (157%), calcium (203%), iron (668%), and magnesium (322%). The associated results in the parent sample are >4X the spiked amount. No qualification is necessary.

The MS performed on sample 414_EP04_13 exhibited a percent recovery below the LCL for potassium (53.9%). The associated results in the parent sample are >4X the spiked amount. No qualification is necessary.

The MS performed on sample 414_EP04_13 exhibited a percent recovery above the UCL for sodium (141%). The associated results are non-detect. No qualification is necessary.

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The post-digestion spike performed on sample BH10013-PS1 exhibited a percent recovery above the UCL for potassium (148%). The associated results in the parent sample are >4X the spiked amount. No qualification is necessary.

The MS performed on sample 414_EP13_8.5 exhibited a percent recovery above the UCL for mercury (160%). The associated results are non-detect. No qualification is necessary.

21H0134

The ICV analyzed on 8/5/2021 at 11:52 exhibited %Rs above the control limit for antimony (113%) and selenium (113%). The associated results are non-detect. No qualification is necessary.

The MB for batch BH10168-BLK1 exhibited a detection of calcium (5.62 mg/kg). The associated results are non-detect and >10X the contamination. No qualification is necessary.

21H0486

The MB for batch BH10539-BLK1 exhibited a detection of potassium (6.74 mg/kg). The associated results are >10X the contamination. No qualification is necessary.

21H0655

The MB for batch BH10737-BLK1 exhibited a detection of calcium (19.2 mg/kg). The associated results are >10X the contamination. No qualification is necessary.

The post-digestion spike performed on sample 414_EP05_13 exhibited percent recoveries above the UCL for antimony (285%) and cadmium (125%). The associated results are non-detect. No qualification is necessary.

21H0719

The MB for batch BH10815-BLK1 exhibited a detection of calcium (10.1 mg/kg). The associated results are >10X the contamination. No qualification is necessary.

FIELD DUPLICATE:

One field duplicate and parent sample pair was collected and analyzed for all parameters. For results less than 5X the RL, analytes meet the precision criteria if the absolute difference is less than $\pm 2X$ the RL. For results greater than 5X the RL, analytes meet the precision criteria if the RPD is less than or equal to 50% for soil. The following field duplicate and parent sample pairs were compared to the precision criteria:

- SO_DUP01_072221 and 414_EP06_8.5

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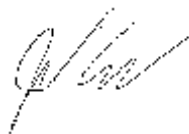
The field duplicate and parent sample (SO_DUP01_072221 and 414_EP06_8.5) exhibited RPDs above the control limit for calcium (105.2 mg/kg) and lead (51.6 mg/kg). The associated results are qualified as J because of potential indeterminate bias.

CONCLUSION:

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All of the data packages met ASP Category B requirements.

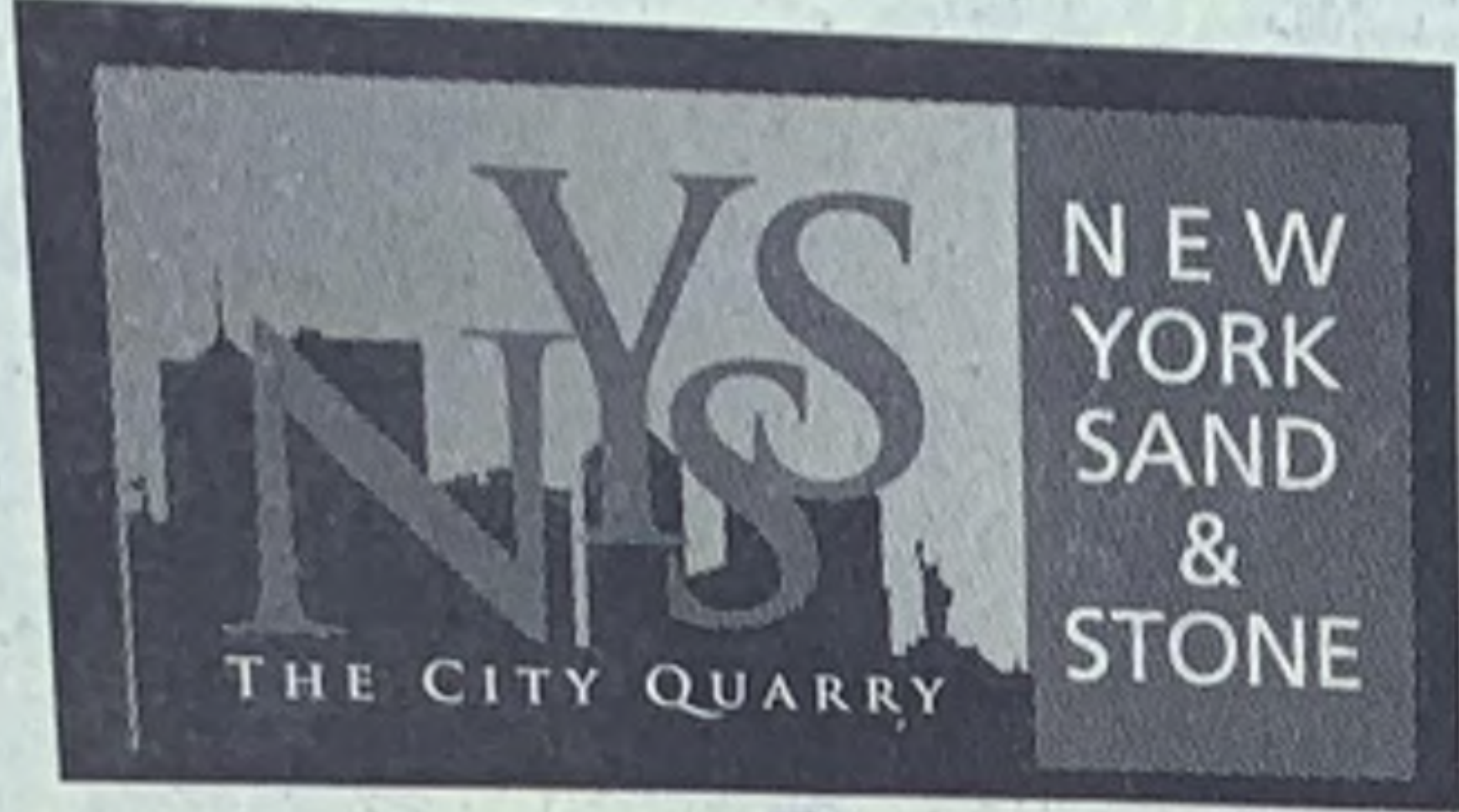
All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

Signed:



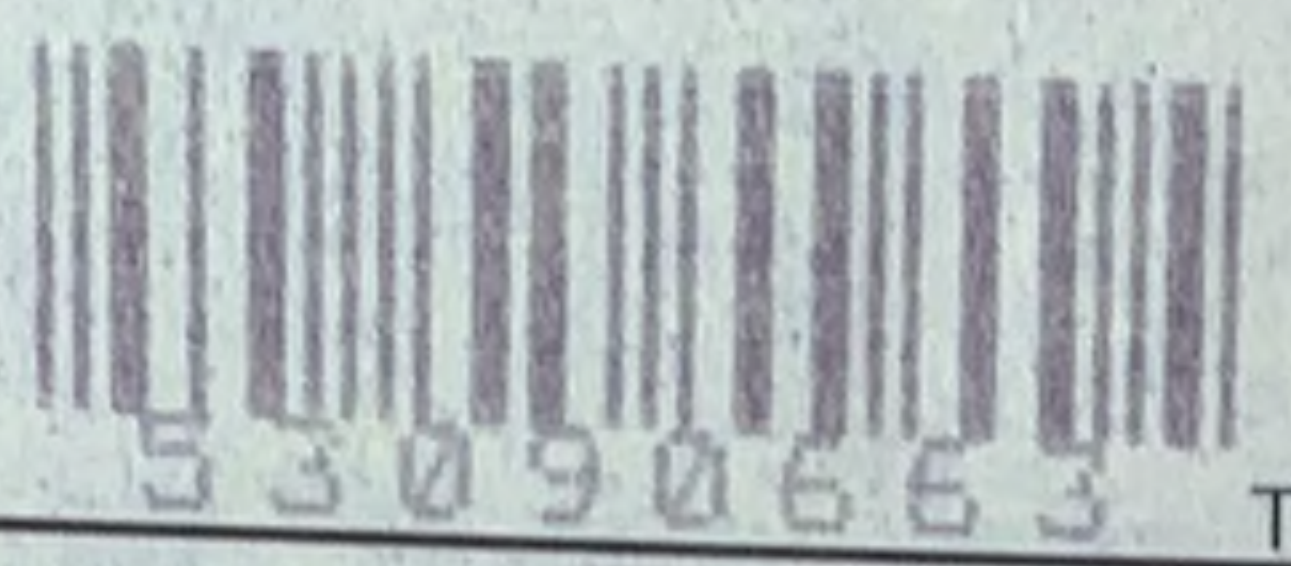
Joe Conboy
Staff Chemist

APPENDIX M
Imported Materials Documentation (CD)



NEW YORK SAND & STONE, LLC
 BROOKLYN NAVY YARD
 63 FLUSHING AVE., 11205
 TEL: 718/596-2897

25TH STREET TERMINAL
 75 25TH ST., BROOKLYN, NY 11232
 INWOOD TERMINAL
 1 SHERIDAN BLVD., INWOOD, NY 11096
 PIER J
 BROOKLYN NAVY YARD, PIER J, BROOKLYN, NY 11205



SHIPPING PLANT	PLANT	SCALE	DATE	TIME	ORDER #
25TH STREET	53	1	01/19/21	08:25	11022
CUSTOMER CODE	CUSTOMER NAME	SOURCE CODE	JOB#	JOB LOCATION	
1404356	AARCO ENVIROMENTAL				
PROJECT CODE	PROJECT NAME	HAULER			
		FOB			
DELV TYPE	ZONE	TRUCK	TRUCK LICENSE		
PICKED UP	52033	19462MH	19642MH		

DELIVERY ADDRESS	DRIVER PRINTED NAME (NO INITIALS)	DRIVER SIGNATURE
414 GERARD AVE, BRONX		
INSTRUCTION	PO #	

ITEM CODE	DESCRIPTION	UNIT	EXTENDED
173250	LIME ASTM #57 3/4" STONE		
	AGG HAUL CHARGE		

GROSS	70320	LBS	35.16	TN	WEIGHMASTER	JWARREN		
TARE	29860	LBS	14.93	TN	LOADS TODAY:	1		
NET	40460	LBS	20.23	TN	TONS TODAY:	20.23	ARRIVE JOB	
							LEAVE JOB	
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								TAX
								TOTAL



CUSTOMER SIGNATURE
 Customer and its designated carrier accept full responsibility for all claims arising out of the delivery and use of the materials described herein, including compliance with all laws and regulations (including carrier weight limitations), and any damages caused during the delivery, handling or use of the materials and hereby agrees to indemnify and defend New York Sand & Stone, LLC. from any such claims. Customer is solely responsible for determining the suitability of the materials for its intended purpose and accepts the materials "AS IS", without any representations or warranties, including fitness for a particular purpose.

CUSTOMER COPY

GLOBAL JOB NUMBER: 1003463

Please Check One:

Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

Clean Earth of Phil
3201 S. 61st Street
Philadelphia, PA 1
Ph: 215-724-5520

Clean Earth of Maryland
1469 Oak Ridge Place
21740

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633



41843217

(Type or Print)

GENERATOR:

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DISPATCH:

CUSTOMER: 85669 Environmental Waste Minimization

SALES ORDER: Q697570

PURCHASE ORDER:

TRACK: AU550Z

CARRIER: 888888 FOB Vendor

DELIVERY METHOD: Pickup ZONE CODE

ITEM CODE: 1055003

DESCRIPTION: ASTM 57 - 3/4" WASHED

DELIVERY ADDRESS:

AGG - NYC PSS - 2021 PRICING

INSTRUCTIONS:

AGG - NYC PSS - 2021 Pricing

AGG - NYC PSS - 2021 Pricing

OFF JOB TIME

GROSS	78 360	lb	39.18	UT
TARE	30 260	lb	15.13	UT
NET	48 100	lb	24.05	UT

ON JOB TIME

# OF LOADS	US TONS TODAY	METRIC TONS TODAY
3	74.88	67.94

TRACK: 41843217

DATE: 7/28/2021

TIME: 17:27

DRIVER SIGNATURE

CUSTOMER SIGNATURE

LOCATION: 00418 Mt. Hope Agg

SOURCE: 8-32R FACILITY ID: 130681

SCALE: 4 WEIGHMASTER: Patricia H

CON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF
ESTABLISHING WEIGHT. OPERATION OF THIS VEHICLE IN EXCESS OF
ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR
DAMAGE TO ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR DAMAGE TO THE

sylvania

Clean Earth
6250 Dow
Upper Ma
Ph: 301-5

Other

3000 Comm

Bethle

WMGROS

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License Plate:

Permit #:

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n accepted at the above refer

ate and Time:



DISPATCH: *41845065*
 CUSTOMER: 85869 Environmental Waste Minimization
 SALES ORDER: Q697570
 PURCHASE ORDER:

TRUCK: AW526V
 HAULER: 888388 FCB Vendor
 DELIVERY METHOD: Pickup ZONE CODE
 ITEM CODE: 055003
 DESCRIPTION: ASTM 57 - 3/4" WASHED

DELIVERY ADDRESS
 AGG - NYC PES - 2021 PRICING

INSTRUCTIONS:

AGG - NYC PES - 2021 Pricing
 AGG - NYC PES - 2021 Pricing

OFF JOB TIME	GROSS	IB	UT
	79,160	IB	39.58 UT
	TARE	IB	14.47 UT
	NET	IB	25.11 UT

ON JOB TIME	# OF LOADS	US TONS TODAY	METRIC TONS TODAY
	3	75.06	68.09

TICKET 41845065

DATE: 8/2/2021
 TIME: 10:30

DRIVER SIGNATURE

CUSTOMER SIGNATURE

LOCATION: C0-118 Mt. Hope Agg
 SOURCE: 8-32R FACILITY ID: 130331
 SCALE: 5 WEIGHMASTER: IV31CM

TRUCK NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF ESTABLISHING WEIGHT VERIFICATION OF THIS VEHICLE. IN EXCESS OF ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND OR



41845106

DISPATCH:
 CUSTOMER: 85869 Environmental Waste Minimization
 SALES ORDER: Q697570
 PURCHASE ORDER:

TRUCK: AU5502
 HAULER: 88838 CB Vendor
 DELIVERY METHOD: Pickup ZONE CODE
 ITEM CODE: 055003
 DESCRIPTION: ASTM 57 - 3/4" WASHED

DELIVERY ADDRESS
 AGG - NYC PPS - 2021 PRICING

INSTRUCTIONS:

AGG - NYC PPS - 2021 Pricing
 AGG - NYC PPS - 2021 Pricing

OFF JOB TIME	GROSS	TARE	NET	IB	IB	IB	UT	UT	UT
	79,960	28,480	50,480	IB	IB	IB	39.98	14.74	25.24

ON JOB TIME	# OF LOADS	US TONS TODAY	METRIC TONS	COAY
	5	123.12	114.41	

TICKET 41845106

DATE: 8/2/2021
 TIME: 10:38

DRIVER SIGNATURE

CUSTOMER SIGNATURE

LOCATION: C0418 Mt. Hope Agg
 SOURCE: 8-32R FACILITY ID: 1R331
 SCALE: 6 WEIGHMASTER: MACK M

TILCOM NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSES OF
 ESTABLISHING WEIGHT OPERATIONS OF THIS VEHICLE. IN EXCESS OF
 ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR

BIC# 487338

EARTHEFFICIENT

30 WEST MAIN STREET, RIVERHEAD, NY 11901
 TEL 631.209.4245 FAX 631.206.9160
 www.earthefficient.com / portal.earthefficient.com

10:15
10:26

Date: 08/02/21
 Customer Name: ECU
 Site Location: Genard Ave
 Truck Co. Wheeler Plate # A4612B
 Truck # 24 Driver Name: David

DESCRIPTION	TYPE	TICKET #	LOAD SIZE
CLEAN CONCRETE			
MIXED DEMO			
BRICK ONLY			
ASPHALT CHUNK/MILLINGS			
ROCK			
MIXED LOADS			
C&D			
CLEAN SOIL EXPORT			
RCA			
RECYCLED ROCK			
QUARRY STONE	<u>3/4"</u>	<u>41845808</u>	<u>274.79</u>
TPS			
SAND			
CLEAN FILL IMPORT			
DGA			
TOP SOIL			
COMPOST AND MULCH			
LIME DUST- SOIL STABILIZATION AGENT			

WAITING TIME/NO LOADS _____

ACKNOWLEDGED AND ACCEPTED BY: (PRINT) _____

OVERSIZED (SIGN) _____

ORIGIN Original
 DESTINATION: Traco MT Hope

48838

BIC# 487338

EARTHEFFICIENT

30 WEST MAIN STREET, RIVERHEAD, NY 11901
 TEL 631.209.4245 FAX 631.206.9160
 www.earthefficient.com / portal.earthefficient.com

Date: 08/02/21
 Customer Name: ECU
 Site Location: 414 Gerard Ave Plate # AYB 549 H
 Truck Co. Mendel Driver Name: M. Anderson
 Truck # 99

DESCRIPTION	TYPE	TICKET #	LOAD SIZE
CLEAN CONCRETE			
MIXED DEMO			
BRICK ONLY			
ASPHALT CHUNK/MILLINGS			
ROCK			
MIXED LOADS			
C&D			
CLEAN SOIL EXPORT			
RCA			
RECYCLED ROCK			
QUARRY STONE		<u>3/4" 4184309</u>	<u>25.82</u>
TPS			
SAND			
CLEAN FILL IMPORT			
DGA			
TOP SOIL			
COMPOST AND MULCH			
LIME DUST- SOIL STABILIZATION AGENT			

WAITING TIME/NO LOADS _____

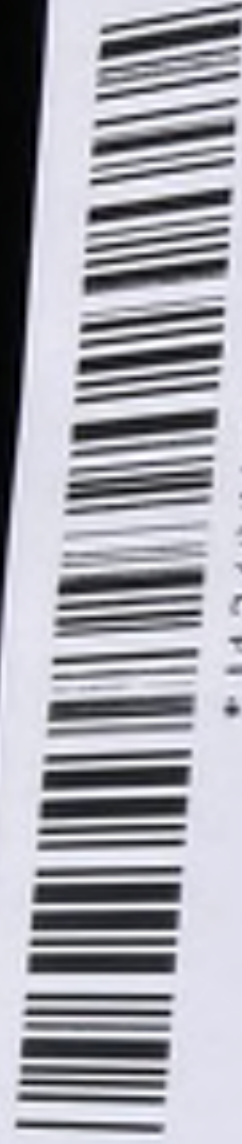
ACKNOWLEDGED AND ACCEPTED BY: (PRINT) _____

OVERSIZED (SIGN) _____

Origin Tilken Mt Hale

DESTINATION: _____

48846



11848262

BATCH: 85669 Environmental Wash Minimization
CUSTOMER: 85669 Environmental Wash Minimization
PURCHASE ORDER: Q697570

WALCK: AS531D
VENDOR: 888888 FOB Vendor
DELIVERY METHOD: Pickup ZONE CODE
ITEM CODE: 1055003
DESCRIPTION: ASTM 57 - 3/4" WASHHEAD

DELIVERY ADDRESS:
GGG - NYC PSS - 2021 PRICING

INSTRUCTIONS:

GGG - NYC PSS - 2021 Pricing
GGG - NYC PSS - 2021 Pricing

FF JOB TIME

GROSS	30 000 lb	40.00 UT
TARE	29 240 lb	14.62 UT
NET	50 760 lb	25.38 UT

IN JOB TIME

# OF LOADS	US "CNSIT" DAY	METRIC TONS TODAY
1	25.38	23.02

CKEET: 41848262

DATE: 8/7/2021
TIME: 08:25

DRIVER SIGNATURE

CUSTOMER SIGNATURE

LOCATION: 00418 Mt. Hope Agg
SOURCE: 8-32R FACILITY ID: 130831
SCALE: 4 WEIGHMASTER: Patricia H

CON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF
ESTABLISHING WEIGHT OPERATION OF THIS VEHICLE IN EXCESS OF
ANY VEHICLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR
BE SUBJECT TO PENALTIES. WE ARE NOT RESPONSIBLE FOR DAMAGE TO THE



41848061

ISSUANCE: 85669 Environmental Waste Minimization
PURCHASE ORDER: Q697570

TRUCK: AS620B
HAULER: 888888 FOB Vendor
DELIVERY METHOD: Pickup ZONE CODE
ITEM CODE: 1055003
DESCRIPTION: ASTM 57 - 3/4" WASHED

DELIVERY ADDRESS:
4GG - NYC PSS - 2021 PRICING

INSTRUCTIONS:
4GG - NYC PSS - 2021 Pricing
4GG - NYC PSS - 2021 Pricing

OFF JOB TIME	GROSS	79 840 lb	39.92	UT
	TARE	28 620 lb	14.31	UT
	NET	51 220 lb	25.61	UT

ON JOB TIME	# OF LOADS	US TON/TXDAY	METRIC TONS TODAY
	3	75.54	68.52

ORIGIN: 41848061

DATE: 8/6/2021
TIME: 15:54

Here at 9:00AM

DRIVER SIGNATURE

CUSTOMER SIGNATURE

LOCATION: 00418 Mt. Hope Agg
SOURCE: 8-32R FACILITY ID: 130631
SCALE: 4 WEIGHMASTER: Mark V

CONNEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF
ESTABLISHING WEIGHT. OPERATION OF THIS VEHICLE IN EXCESS OF
AVAILABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR
FINE BY ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR DAMAGE TO THE

Start 9 AM
Finish NAM



41848046

STATUS:
CUSTOMER: 85669 Environmental Waste Minimization
SALES ORDER: Q697570
PURCHASE ORDER:
BLOCK: AS763L
CALLER: 888888 FOB Vendor
DELIVERY METHOD: Pickup ZONE CODE
EIN CODE: 1055003
DESCRIPTION: ASTM 57 - 3/4" WASHED

DELIVERY ADDRESS:
AGG - NYC PSS - 2021 PRICING

INSTRUCTIONS:
AGG - NYC PSS - 2021 Pricing
AGG - NYC PSS - 2021 Pricing

DIFF	JOB TIME	GROSS	78 340 lb	39.17 UT
		TARE	28 660 lb	14.33 UT
		NET	49 680 lb	24.84 UT

JOB TIME	# OF LOADS	US TONNAGE	METRIC TONS TODAY
	1	24.84	22.53

CKET: 41848046

DATE: 8/6/2021
TIME: 15:27

DRIVER SIGNATURE

CUSTOMER SIGNATURE

LOCATION: 00418 Mt. Hope Agij
SOURCE: 8-32R FACILITY ID: 130531
SCALE: 4 WEIGHMASTER: Mark V

COIN NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF
ESTABLISHING WEIGHT OPERATION OF THIS VEHICLE IN EXCESS OF
LOCAL LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR
ISSUE BY ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR THIS DAMAGE TO VEHICLE



41848057

SPATCH: 85869 Environmental Waste Minimization

JOB TOWER:

SALES ORDER: Q697570

PURCHASE ORDER:

PLUCK: AU551Z

APPLIER: 888888 FOB Vendor

DELIVERY METHOD: PICKUP ZONE CODE

EM CODE: 1055003

DESCRIPTION: ASTM 57 - 3/4" WASHED

DELIVERY ADDRESS:

*GG - NYC PSS - 2021 PRICING

INSTRUCTIONS:

*GG - NYC PSS - 2021 Pricing

*GG - NYC PSS - 2021 Pricing

DIFF JOB TIME	GROSS	79.820	Lb	39.91	UT
	TARE	29.840	Lb	14.82	UT
	NET	50.180	Lb	25.09	UT
DIFF JOB TIME	# OF LOADS	2	49.90	METRIC TONS TODAY	
				45.29	

CCKET: 41848057

DATE: 8/6/2021

TIME: 15:46

DRIVER SIGNATURE

CUSTOMER SIGNATURE

LOCATION: 00418 Mt Hope Agri

SOURCE: 8-32R FACILITY ID: 130631

SCALE: 4 WEIGHMASTER: Max V

JOHN NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF
 TRACKING WEIGHT OPERATIONS OF THIS VEHICLE IN EXCESS OF
 FEDERAL LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR
 DELAY OF THE OPERATIONS. THE USER MUST SIGN AND DATE THIS RECEIPT AT THE TIME OF WEIGHING.



41345367

PLANT: 85689 Envisioning a World Minimization
 CUSTOMER: 85689 Envisioning a World Minimization
 LES ORDER: Q897570
 PURCHASE ORDER:

BUCK: AS763L
 UTILITY: 888888 FOB Vendor
 LIVERY METHOD: Pickups ZONE CODE

ENCL CODE: *055303
 DESCRIPTION: ASTM 57 - 3/4" WASHED

Waiting time

Start = 7 AM

Finish = 10 AM

DELIVERY ADDRESS:
 GGG - NYC PSS - 2021 Pricing

INSTRUCTIONS:
 GGG - NYC PSS - 2021 Pricing
 GGG - NYC PSS - 2021 Pricing

FLIGHT TIME	GROSS	TARE	NET	WT (LBS)	WT (KG)
	78.980	28.590	50.390	45.04	20.51

JOB TIME	# OF LOADS	US TENSITON	METRIC TO 45 TONS
	2	50.81	45.18

NET: 41848357

DATE: 8/7/2021
 TIME: 12:04

OPER SIGNATURE

CUSTOMER SIGNATURE

LOCATION: 00418 ME H030 F01
 FACILITY ID: 130331
 SOURCE: 6-32R WEGHMASTER F01301H
 PALE 4

NEW YORK, NY ISSUES THIS RECEIPT SOLELY IN THE INTEREST OF
 CONVENIENCE AND OPERATION OF THIS FACILITY. IT IS NOT
 A GUARANTEE OF THE QUALITY OF THE PRODUCT AND/OR
 THE WEIGHT THEREOF. THE USER SHALL BE RESPONSIBLE FOR
 VERIFYING THE WEIGHT AND QUALITY OF THE PRODUCT AT THE TIME OF RECEIPT.



ALBA COMPANY

TILCON NEW YORK INC.

162 OLD MILL ROAD
WEST NYACK, NY 10994
New York Orders: (800) 612-7262
New Jersey Orders: (800) 765-7625

Ticket #: 41852357



Ticket #	Date	Time	Dispatch	Plant #	Plant Description	Source	Facility ID
41852357	06/16/2021	10:55		02418	Mt. Hope Agg	B-32H	133531
Sold To: Environmental Waste Minimization Job Description: AGG - NYC PSS - 2021 PRICING				Customer # 55689	Order # Q557570	Purchase Order	
				Zone	Truck # AW23BF	Hauler 888888 FOB Vendor	
Product #	Product Description			DOT Mix ID		Delivery Method	
1066003	ASTM 57 - 3/4" WASHED					Pickup	

AGG - NYC PSS - 2021 Pricing
NYC NY

Loads: 1 Accum Amount: 23.45 Tons 21.27 Metric Tonnes

GROSS: 77,180 L
TARE: 30,280 L
NET: 46,900 L

This Load: 23.45 Tons 21.27 Metric Tonnes

Weighmaster Mark M

TILCON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF ESTABLISHING WEIGHT OPERATION OF THIS VEHICLE IN EXCESS OF ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR ARREST OF ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR DAMAGE WHEN DELIVERY IS ORDERED OFF PUBLIC ROADS ANY DAMAGE WILL BE CHARGED TO THE CUSTOMER

Received By: _____ Driver Name: _____

**TILCON NEW YORK INC.**

807 OLD MILL ROAD
WEST NYACK, NY 10994
New York Orders: (800) 872-7762
New Jersey Orders: (800) 788-7625

Ticket #: 41852464



Ticket #	Date	Time	Dispatch	Plant #	Plant Description	Source	Facility ID
41852464	08/16/2021	12:50		00418	Mt Hope Agg	8-32R	133631
Sold To: Environmental Waste Minimization Job Description: AGG - NYC PSS - 2021 PRICING				Customer # 85685	Order # C697570	Purchase Order	
				Zone	Truck # AW8341	Hauler 888858 FOB Vendor	
Product #	Product Description			DOT Mix ID		Delivery Method	
1055003	ASTM 57 - 3/4" WASHED					Pickup	

AGG - NYC PSS - 2021 Pricing
NYC NY

Loads: 6 Accum Amount: 148.25 Tons 134.87 Metric Tonnes

GROSS 77,850 L
TARE 29,225 L
NET: 48,625 L

This Load: 24.32 Tons 22.06 Metric Tonnes

Weighmaster Mark M

TILCON NEW YORK INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF ESTABLISHING WEIGHT OPERATION OF THIS VEHICLE IN EXCESS OF ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR ARREST OF ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR DAMAGE WHEN DELIVERY IS ORDERED OFF PUBLIC ROADS ANY DAMAGE WILL BE CHARGED TO THE CUSTOMER.

Received By:

Driver Name:



11852420

BATCH:
 CUSTOMER: 85689 Environmental Waste Minimization
 PO ORDER: Q697570
 PURCHASE ORDER:
 TRUCK AS757P
 DRIVER: 888888 FOB Vendor
 DELIVERY METHOD: Pickup ZONE CODE
 ACCODE: 1055003
 DESCRIPTION: ASTM 57 - 3/4" WASHHEED
 DELIVERY ADDRESS:
 AGG - NYC PSS - 2021 PRICING

INSTRUCTIONS:
 AGG - NYC PSS - 2021 Pricing
 AGG - NYC PSS - 2021 Pricing

JOB TIME	GROSS	79 700	Lb	39.85	LT
	TARE	28 200	Lb	14.10	LT
	NET	51 500	Lb	25.75	LT

JOB TIME	# OF LOADS	LS TONS TODAY	METRIC TONS TODAY
	5	124.06	112.81

NET: 41852420

DATE: 8/16/2021

TIME: 12:05

DRIVER SIGNATURE

CUSTOMER SIGNATURE

LOCATION: 00418 Mt. Hope Agg

SOURCE: 8-32R FACILITY ID: 130631

SCALE: 4 WEIGHMASTER: Mark V

NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF
 TARE AND GROSS WEIGHT OPERATIONS OF THIS VEHICLE IN EXCESS OF
 ANY APPLICABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR
 DAMAGE TO ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR DAMAGE TO THE



AGG COMPANY

TILCON NEW YORK INC.

162 OLD MILL ROAD
WEST NYACK, NY 10994
New York Orders (800) 872-7762
New Jersey Orders (800) 789-7025

Ticket #: 41852362



Ticket #	Date	Time	Dispatch	Plant #	Plant Description	Source	Facility ID
41852362	05/16/2021	10:57		00418	Mt. Hope Agg	8-32R	133631
Sold To: Environmental Waste Minimization Job Description: AGG - NYC PSS - 2021 PRICING				Customer # 55869	Order # C897570	Purchase Order	
				Zone:	Truck # AW812B	Hauler 888888 FOB Vendor	
Product # 1055003	Product Description ASTM 57 - 3/4" WASHED			DOT Mix ID		Delivery Method Pickup	

AGG - NYC PSS - 2021 Pricing
NYC NY

Loads: 2 Accum Amount: 48.08 Tons 43.61 Metric Tonnes

GROSS: 78,920 L
TARE: 29,660 L
NET: 49,260 L

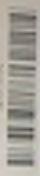
This Load: 24.63 Tons 22.34 Metric Tonnes

Weightmaster Mark M

TILCON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF ESTABLISHING WEIGHT. OPERATION OF THIS VEHICLE IN EXCESS OF ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR ARREST OF ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR DAMAGE WHEN DELIVERY IS ORDERED OFF PUBLIC ROADS ANY DAMAGE WILL BE CHARGED TO THE CUSTOMER

Received By: _____ Driver Name: _____

20101014



CONTRACT NO. 10101014
CONTRACTOR: [REDACTED]
PROJECT: [REDACTED]

CONTRACT NO. 10101014
CONTRACTOR: [REDACTED]
PROJECT: [REDACTED]

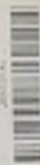
CONTRACT NO. 10101014
CONTRACTOR: [REDACTED]
PROJECT: [REDACTED]

ITEM NO.	DESCRIPTION	QTY	UNIT	AMOUNT
1	[REDACTED]	1	[REDACTED]	[REDACTED]
2	[REDACTED]	1	[REDACTED]	[REDACTED]
3	[REDACTED]	1	[REDACTED]	[REDACTED]
4	[REDACTED]	1	[REDACTED]	[REDACTED]
5	[REDACTED]	1	[REDACTED]	[REDACTED]

CONTRACT NO. 10101014
CONTRACTOR: [REDACTED]
PROJECT: [REDACTED]

CONTRACT NO. 10101014
CONTRACTOR: [REDACTED]
PROJECT: [REDACTED]

20101014



CONTRACT NO. 10101014
CONTRACTOR: [REDACTED]
PROJECT: [REDACTED]

CONTRACT NO. 10101014
CONTRACTOR: [REDACTED]
PROJECT: [REDACTED]

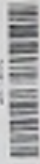
CONTRACT NO. 10101014
CONTRACTOR: [REDACTED]
PROJECT: [REDACTED]

ITEM NO.	DESCRIPTION	QTY	UNIT	AMOUNT
1	[REDACTED]	1	[REDACTED]	[REDACTED]
2	[REDACTED]	1	[REDACTED]	[REDACTED]
3	[REDACTED]	1	[REDACTED]	[REDACTED]
4	[REDACTED]	1	[REDACTED]	[REDACTED]
5	[REDACTED]	1	[REDACTED]	[REDACTED]

CONTRACT NO. 10101014
CONTRACTOR: [REDACTED]
PROJECT: [REDACTED]

CONTRACT NO. 10101014
CONTRACTOR: [REDACTED]
PROJECT: [REDACTED]

20101014



CONTRACT NO. 10101014
CONTRACTOR: [REDACTED]
PROJECT: [REDACTED]

CONTRACT NO. 10101014
CONTRACTOR: [REDACTED]
PROJECT: [REDACTED]

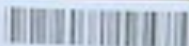
CONTRACT NO. 10101014
CONTRACTOR: [REDACTED]
PROJECT: [REDACTED]

ITEM NO.	DESCRIPTION	QTY	UNIT	AMOUNT
1	[REDACTED]	1	[REDACTED]	[REDACTED]
2	[REDACTED]	1	[REDACTED]	[REDACTED]
3	[REDACTED]	1	[REDACTED]	[REDACTED]
4	[REDACTED]	1	[REDACTED]	[REDACTED]
5	[REDACTED]	1	[REDACTED]	[REDACTED]

CONTRACT NO. 10101014
CONTRACTOR: [REDACTED]
PROJECT: [REDACTED]

CONTRACT NO. 10101014
CONTRACTOR: [REDACTED]
PROJECT: [REDACTED]

CONTRACT NO. 10101014
CONTRACTOR: [REDACTED]
PROJECT: [REDACTED]



4279457

DEPT: 0000
 ORDER: 1000000000
 SALES: 0000
 PRODUCT: 0000
 QUANTITY: 1000
 UNIT: 0000
 ORDER: 1000000000
 ORDER: 1000000000
 ORDER: 1000000000
 ORDER: 1000000000
 ORDER: 1000000000

ORDER: 1000000000
 ORDER: 1000000000

ORDER: 1000000000

ORDER	QUANTITY	UNIT	PRICE	TOTAL
1000	1000	0000	1000	1000000
1000	1000	0000	1000	1000000
1000	1000	0000	1000	1000000
TOTAL	3000			3000000

ORDER: 1000000000

ORDER: 1000000000
 ORDER: 1000000000

ORDER: 1000000000

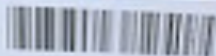
ORDER: 1000000000

ORDER: 1000000000

ORDER: 1000000000

ORDER: 1000000000

ORDER: 1000000000
 ORDER: 1000000000
 ORDER: 1000000000
 ORDER: 1000000000



403109

1324
 1324R 8000 Eindhoven Cir / Amsterdam
 IS ORDER 084710
 CHASE ORDER
 CK 889940
 LTR 88998 FOR Vendor
 VERIFY METHOD: Poket 2D-BLICE
 0000 0000
 01/17/04 4214 17 3474140
 NEW ADDRESS
 001-NYC PSE - 201 Prong

001-NYC PSE - 201 Prong
 001-NYC PSE - 201 Prong

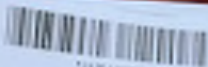
DATE	AMOUNT	TYPE	STATUS
01/17/04	4214.17	CHQ	PAID
01/17/04	4214.17	CHQ	PAID
01/17/04	4214.17	CHQ	PAID

(T) 410400
 01/17/04
 00:31

SIGNATURE

OWNER SIGNATURE

ORDER NO. 084710
 ORDER DATE 01/17/04
 ORDER TIME 00:31
 ORDER AMOUNT 4214.17
 ORDER TYPE CHQ
 ORDER STATUS PAID



11121107

ATCH
FLOWER 8580 Suttervale Vista Mariposa
IS ORDER DESPITE

CHASE ORDER

OK ANYDAY

LIFE 8580 Suttervale Vista Mariposa

NEAR WILCO Point - 2D-RT-100

CODE 10833

DESCRIPTION ADM ST - SHAWNEE

YOUR ADDRESS
20-100 PLS - 2011 PRING

SECTION

MOD - NYC PLS - 2011 PRING

MOD - NYC PLS - 2011 PRING

SECTION	QUANTITY	UNIT PRICE	TOTAL
NYC	1	14.95	14.95
NYC	1	14.95	14.95
NYC	1	14.95	14.95

SECTION	QUANTITY	UNIT PRICE	TOTAL
NYC	1	14.95	14.95

17 43040

1 819021

05-14

LET SIGNATURE

CHECK SIGNATURE

PHONE 508-858-8618 FAX 508-858-8619

PRICE 8-30% FACILITY 10% TAX 10%

A.C. 4 INCORPORATED 1985-1986

10000 SUTTERVALE VISTA MARIPOSA CA 95319-1000

10000 SUTTERVALE VISTA MARIPOSA CA 95319-1000

10000 SUTTERVALE VISTA MARIPOSA CA 95319-1000



41864666

DISPATCH:
 CUSTOMER: 85669 Environmental Waste Minimization
 SALES ORDER: Q697570
 PURCHASE ORDER:
 TRUCK: AT953G
 HAULER: 888888 FOB Vendor
 DELIVERY METHOD: Pickup ZONE CODE
 ITEM CODE: 1015018
 DESCRIPTION: ASTM #57

DELIVERY ADDRESS:
 AGG - NYC PSS - 2021 PRICING

INSTRUCTIONS:
 AGG - NYC PSS - 2021 Pricing
 AGG - NYC PSS - 2021 Pricing

OFF JOB TIME <input type="text"/>	GROSS	75,580 lb	37.79 UT
	TARE	27,580 lb	13.79 UT
	NET	48,000 lb	24.00 UT

ON JOB TIME <input type="text"/>	# OF LOADS	US TONS TODAY	METRIC TONS TODAY
	1	24.00	21.77

TICKET: 41864666

DATE: 9/9/2021
 TIME: 15:33

DRIVER SIGNATURE

CUSTOMER SIGNATURE

LOCATION: 00418 Mt. Hope Agg

SOURCE: 8-32R FACILITY ID: 133631

SCALE: 4 WEIGHMASTER: Patricia H

TILCON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF
 ESTABLISHING WEIGHT. OPERATION OF THIS VEHICLE IN EXCESS OF
 ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR
 ABUSE OF ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR DAMAGE WHEN