355 EXTERIOR STREET SITE
355 EXTERIOR STREET
BRONX, NEW YORK 10451
SITE #C203129

REMEDIAL INVESTIGATION WORK PLAN

SUBMITTED TO:

New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 1233-702

PREPARED FOR:

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PWGC Project Number: LST1802

MAY 2020

REMEDIAL INVESTIGATION WORK PLAN
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BRONX, NEW YORK 10451

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ACRONYM	DEFINITION
6:2 FTS	6:2 Fluorotelomer sulfonate
8:2 FTS	8:2 Fluorotelomer sulfonate
µg/m^3	Microgram per cubic meter
APR	Air Purifying Respirator
ASP	Analytical Services Protocol
AWQS	Ambient Water Quality Standards
bgs	below ground surface
CAMP	Community Air Monitoring Plan
CFR	Code of Federal Regulations
COPC	Contaminants of Potential Concern
DER	Division of Environmental Remediation
DER-10	Technical Guidance for Site Investigation and Remediation
DUSR	Data Usability Summary Report
EDD	Electronic Data Delivery
EIMS	Environmental Information Management System
ELAP	Environmental Laboratory Accreditation Program
EM	Electromagnetic
ESA	Environmental Site Assessment
FOSA	Perfluroroctanesulfonamide
GPR	Ground Penetrating Radar
GV	Guidance Value
HASP	Health and Safety Plan
HDPE	High-density Polyethylene
HSM	Health and Safety Manager
IDLH	Immediately Dangerous to Life and Health
IDW	Investigative Derived Waste
in. of Hg	inches of mercury
MDL	Method Detection Limit
mg/kg	milligram per kilogram
mL	milliliter
mL/min	milliliter per minute
MS/MSD	Matrix Spike / Matrix Spike Duplicate
N-EtFOSAA	N-ethyl perfluorooctanesulfonamidoacetic acid
NIOSH	National Institute for Occupational Safety and Health
N-MeFOSAA	N-methyl perfluorooctanesulfonamidoacetic acid
NTU	Nephelometric Turbidity Units
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PFAS	Perfluoroakyl and Polyfluoroakyl Substances
PFBA	Perfluorobutanoic acid
PFBS	Perfluorobutanesulfonic acid
PFDA	Perfluorodecanoic acid
PFDoA	Perfluorododecanoic acid

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PFDS	Perfluorodecanesulfonic acid
PFHpA	Perfluoroheptanoic acid
PFHpS	Perfluoroheptanesulfonic acid
PFHxA	Perfluorohexanoic acid
PFHxS	Perfluorohexanesulfonic acid
PFNA	Perfluorononanoic acid
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctanessulfonic acid
PFPeA	Perfluoropentanoic acid
PFTA/PFTeDA	Perfluorotetradecanoic acid
PFTriA/PFTrDA	Perfluorotridecanoic acid
PFUA/PFUdA	Perfluoroundecanoic acid
PID	Photo-ionization Detector
PM-10	10 micrometers in size
PPE	Personal Protective Equipment
ppm	parts per million
PVC	Polyvinyl Chloride
PWGC	P.W. Grosser Consulting, Inc.
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance / Quality Control
QEP	Qualified Environmental Professional
REC	Recognized Environmental Condition
RI	Remedial Investigation
RIR	Remedial Investigation Report
RIWP	Remedial Investigation Work Plan
RL	Reporting Limit
RRU	Restricted-Residential Use
SCBA	Self-contained Breathing Aparatus
SCG	Standards, Criteria, and Guidance
SCO	Soil Cleanup Objective
SDG	Sample Delivery Group
sf	square-feet
SOP	Standard Operating Procedure
SVOC	Semi-volatile Organic Compound
TOGS 1.1.1	Division of Water Technical and Operation Guidance Series (1.1.1)
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
UU	Unrestricted Use
VOC	Volatile Organic Compound

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CERTIFICATION

I, Derek Ersbak, PG, certify that I am currently a Qualified Environmental Professional (QEP) as defined in 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 and that this Remedial Investigation Work Plan (RIWP) was prepared in accordance with applicable statutes and regulations and in substantial conformance with the New York State Department of Environmental Conservation's (NYSDEC's) Division of Environmental Remediation's (DER's) Technical Guidance for Site Investigation and Remediation (DER-10).

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



	2020.05.05
Signature	Date

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

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1.0 INTRODUCTION

P.W. Grosser Consulting, Inc. (PWGC) has prepared the following RIWP to outline procedures and a scope of work intended to delineate impacted areas of concern at the site located at 355 Exterior Street, Bronx, New York. The proposed Remedial Investigation (RI) is intended to obtain additional subsurface quality data, delineate areas of concern within the property boundary and evaluate whether offsite adjacent properties may be impacted.

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2.0 SITE DESCRIPTION AND HISTORY

2.1 Site Description

The site is located at 355 Exterior Street in the Mott Haven section of the Bronx, New York and is identified as Block 2349 and Lots 0046 and 0047 on the New York City Tax Map. The site is approximately 62,500-square feet (sf) and is bounded by commercial properties to the north and south, Exterior Street to the east, and the East River to the west. The site contains an asphalt paved parking lot and an approximately 31,850-sf warehouse building. The property is currently unoccupied.

A Vicinity Map is included as **Figure 1**. A Site Plan is included as **Figure 2**.

2.2 Site History

Historical usage of the subject property indicates that it was first developed in the early 1900s and was used as a freight train support facility and lumber supply building until circa 1966. The infrastructure supporting the freight train operation was removed from the site at which time the use of the property transitioned to commercial use and parking. Between 1966 to current day, the site appears to have been utilized for mixed commercial use including lumber distribution, a roofing company and Borax Paper Products. To the best of PWGC's knowledge, no remedial activities are known to have previously taken place at the site.

2.3 Regional Geology/Hydrogeology

The geologic setting of New York City is well documented. Manhattan Island and the Bronx are underlain by tightly folded, metamorphic rocks. Erosion of these formations has resulted in the formation of northeast trending hills which are prominent in the northern sections of Manhattan. The bedrock beneath most of Manhattan and the Bronx is the Manhattan schist. The Inwood limestone does underlie two small areas in the northern half of the Manhattan island and a narrow belt of limestone is also present on the southeastern portion of the island near the East River. The Fordham gneiss also outcrops in a few locations on the northern half of the island. In most areas of Manhattan and the Bronx, bedrock is overlain by thin deposits of Pleistocene age glacial outwash deposits (sand and gravel).

2.4 Site Geology/Hydrogeology

Generally, soil consisted of brown sand and gravel with fill material (brick, asphalt, and wood) from grade to approximately ten feet below grade. Below the fill layer was typically grey silty sand or grey clay which extended within groundwater which was typically encountered around eight to ten feet below grade.

2.5 Site Features

The project site elevation is approximately 5 feet above mean sea level and is generally level. The site is improved with an asphalt paved parking lot and a 31,850-sf warehouse building. The property is currently unoccupied.

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2.6 Current and Future Site Use

The site is currently unoccupied and improved with an at grade parking lot and 31,850-sf storage building. Development plans for the site consist of the demolition of the existing structure, and construction of a mixed-use building, open landscaped areas, access roads, and sidewalks. The current zoning designation is R7-2 residential. The proposed use is consistent with existing zoning for the property. The goal of the cleanup at the site is to achieve Track 2 status; however, it is understood that the project may achieve Track 4.

2.7 Previous Environmental Reports

2.7.1 Phase I Environmental Site Assessment (December 2018)

PWGC prepared a Phase I Environmental Site Assessment (ESA) in December 2018. The Phase I ESA identified the following Recognized Environmental Conditions (RECs) associated with the subject property:

- The site has been assigned an E-Designation for Air, Hazardous Materials, and Noise by the New York City Department of Planning.
- The site has been historically utilized for commercial and industrial purposes that likely included the storage and use of hazardous substances and/or petroleum products at the site.
- Potential vapor encroachment related to historical use of the site.

2.7.2 Phase II Environmental Site Assessment (May 2019 through July 2019)

Based on the findings of the December 2018 Phase I ESA, PWGC performed a Phase II ESA for the site between May 2019 and July 2019. The Phase II ESA is summarized below; data generated as part of the Phase II ESA will be incorporated into the RI Report (RIR) for the site. The Phase II ESA is included as **Appendix A**.

Site Inspection

An inspection was performed to evaluate the site. The inspection consisted of the interior portions of the building, the roof, and the asphalt parking lot. According to the current building manager, the building is heated via natural gas. No chemical storage or waste generation and storage beyond municipal waste was identified. No potentially polychlorinated biphenyl (PCB) containing equipment was identified. Two interior drain pits were identified with no determinate discharge point. No determination could be made in the field regarding the nature of these pits or what purpose they may have served. No staining or other evidence of spills was noted in the vicinity of the drain pits.

Geophysical Survey

A geophysical survey to identify potential underground storage tanks (USTs) and/or other subsurface anomalies that may warrant additional investigation was performed. The area surveyed included the parking lot adjacent to the onsite building. Access to the interior of the building was not available at the time of this survey. Most of the parking lot was accessible but several rental trucks were present and were unable to be moved during the survey. The survey did not identify the presence of subsurface anomalies in the areas accessible during the initial investigation. It should be noted that due to reinforced concrete in the parking lot, the

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effectiveness of the survey was limited, and several proposed boring locations were relocated based on this information. Subsurface anomalies may exist beyond the capability of the equipment utilized due to interference or other factors.

Soil Borings and Sampling

To characterize soil quality, soil borings were installed throughout the subject property in three separate events. PWGC installed SB007 through SB010 including all SB009 step out samples on May 9 and 10, 2019. PWGC returned to the site to collect SB016 and SB017 and additional deeper intervals at SB008 on June 6, 2019. Once PWGC gained access to the interior of the building, borings SB018 through SB023 were collected on July 5, 2019. Boring locations were focused in areas of potential concern as identified by the Phase I ESA and in areas where visual impact was observed during this investigation. A total of 16 soil borings were installed during the investigation.

Generally, soil consisted of brown sand and gravel with fill material (brick, asphalt, and wood) from grade to approximately ten feet below grade. Below the fill layer was typically grey silty sand or grey clay which extended within groundwater which was typically encountered around eight to ten feet below grade. Discolored soil with a slight petroleum odor and low-level photo-ionization detector (PID) detections were observed in four of the sixteen soil borings (SB009, SB009_E, SB009_W and SB016). The presence of potential petroleum contamination was observed at the soil/water table interface (approximately eight to ten feet below surface grade) in each of these four soil borings. Potential contamination was not observed in the shallower intervals above the soil/water table interface. SB009 contained the highest PID readings therefore additional "step out" samples were conducted to determine a potential source location and approximate extent of petroleum impact. Soil borings were installed approximately 25 feet from SB009 to the east (SB009_E), north (SB009_N) and west (SB009_W). Due to the presence of petroleum impact within SB009_W, an additional step out sample approximately 25 feet to the west was installed (SB009_W2). No additional delineation could be completed to the south of SB009 due to the presence of the on-site building and the lack of access to the interior of the building during the initial field work. In addition to original boring location SB009, visual petroleum impact and elevated PID readings were observed within SB009_E and SB009_W. Due to the visual and olfactory presence of petroleum contamination, the NYSDEC was notified and spill # 19-01885 was assigned to the site.

Semi-volatile organic compounds (SVOCs) and/or metals were detected above both Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) and Restricted-Residential Use (RRU) SCOs in the majority of the soil samples analyzed. Impact exceeding RRUSCOs was predominantly limited to samples collected from within the top ten feet of the site. However, there was a significantly elevated concentration of arsenic (22.1 milligrams per kilogram (mg/kg)) and mercury (5.38 mg/kg) in SB007 at a depth of 12 to 14 feet below ground surface (bgs).

Volatile organic compounds (VOCs) were detected above RRUSCOs in one of the six soil samples analyzed. SB009_E (8-10') contained 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene above their respective RRUSCOs. These exceedances within this sample confirm the visual observations

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which indicated petroleum impact. SB009 (8-10') did not contain VOC exceedances, but there were several VOC compounds detected above their method detection limit (MDL) along with observed visual impact and elevated PID readings (80.1 parts per million (ppm)). The SB009 step out samples to the north and west did not show petroleum impact therefore it is likely that the source originates to the east of SB009. The VOCs detected are commonly found in fuel oils, gasoline, Stoddard solvent, etc.

Pesticides and PCBs were not detected above RRUSCOs.

Groundwater Sampling

To evaluate groundwater quality, groundwater samples were collected from temporary well points. Groundwater sampling locations were selected based on field observations. A total of two groundwater samples were collected during the investigation.

VOCs were detected above Ambient Water Quality Standards (AWQS) or Guidance Values (GVs) in one of the two groundwater samples. The VOC impact was noted in MW004, which was installed in SBOO9 where visual impact was noted. The presence of VOCs in soils collected from SB009_E, the visual identification of petroleum impact in SB009 and the groundwater sample collected from MW004 is likely related to a historic petroleum release which resulted in the NYSDEC spill number.

SVOCs were detected above AWQS or GVs in both groundwater samples. The SVOCs detected in the groundwater samples were also observed at elevated concentrations in the soil samples with the exception of phenol. Phenol was detected in the groundwater at MW004 but was not detected in site soils. This could be a likely laboratory contaminant based on the presence within the groundwater but not within the soils.

Several metals were detected above AWQS or GVs. In general, metals were reduced in the dissolved (lab filtered) samples. Dissolved metals in excess of AWQS or GVs were limited to magnesium, selenium, and sodium. The magnesium and sodium are high within the groundwater samples due to the known salinity of the adjacent Harlem River which intrudes onto the site.

Pesticides and PCBs were not detected above laboratory MDLs.

Soil Vapor Sampling

To evaluate soil vapor quality, one soil vapor sample was collected.

Several VOCs were detected above laboratory method detection limits. Tetrachloroethene, 2-butanone (methyl ethyl ketone), carbon disulfide, cyclohexane, benzene, propylene, toluene among others were detected above their laboratory MDLs. Several of these compounds were also detected above their MDL within MW004. Petroleum related VOCs may be present in the soil vapor sample due to presence of petroleum along the water table interface.

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3.0 STANDARDS, CRITERIA, AND GUIDANCE (SCGS)

Based on previous investigations at the site, the primary chemicals of potential concern (COPC) to be encountered at the site are VOCs, SVOCs, metals and grossly contaminated media.

Applicable regulations at NYSDEC 6 NYCRR Part 375 provide SCOs for UU, or Restricted Use based on the intended usage of the property. Restricted Use SCOs include: Residential, Restricted Residential (single family houses not permitted), Commercial, or Industrial. The goal of the cleanup at the site is to achieve Track 2 status, therefore soil sample results will be compared to the RRUSCOs.

Groundwater sample results will be compared to the NYSDEC Class GA AWQS or GVs as specified in the Technical Operation and Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards and Guidance Values.

Soil vapor results will be evaluated to determine the type and concentration of analytes present.

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4.0 OBJECTIVES, SCOPE, AND RATIONALE

The primary objectives of the additional work detailed in this plan will be to collect the information and field data necessary to address data gaps pertaining to onsite issues. The Scope of Work includes the following tasks:

1) Geophysical Survey
2) Additional characterization of onsite soils
3) Additional characterization of onsite groundwater
4) Additional characterization of onsite soil vapor
5) Confirmation of site-specific groundwater flow direction
6) Onsite and offsite qualitative human health exposure evaluation

4.1 Geophysical Survey

The effectiveness of the geophysical survey performed as part of the historical investigation was limited due to the presence of reinforced concrete. In addition, the survey was not performed within the interior of the building.

To determine if subsurface anomalies are present at the site and to determine the discharge location of two interior subsurface pits, a geophysical survey will be performed. Alternative equipment and procedures shall be utilized to account for the presence of reinforced concrete.

4.1.1 Electromagnetic Survey

The electromagnetic (EM) method uses the principle of EM induction to measure the variability of electrical conductivity of subsurface materials and the presence of buried metal objects. Significant contrasts in the electrical properties between non-indigenous materials and surrounding soil enable accurate delineation of buried waste materials, fill, and air spaces. The large EM response to metal makes this technique particularly well suited to identify buried objects such as USTs, metallic wastes, buried drums, pipelines, reinforced building foundations, or other metal components of buried structures. It is, however, equally sensitive to metal objects on the ground surface, and it is important to take careful field notes that indicate the position of surface metal to avoid misinterpretation.

A Geonics EM-61 high-resolution time domain metal detector, or equivalent, will be used to conduct the first phase of the investigation. The EM-61 is used to detect both ferrous and non-ferrous metals buried in the upper 10 feet of the subsurface. A powerful transmitter generates a pulsed primary magnetic field, which induces eddy currents in nearby metal objects. The decay of these currents is measured by upper and lower receiver coils mounted in the coil assembly. The responses are recorded and displayed by an integrated data logger as two-channel information. The bottom channel is more sensitive to metallic objects in the shallow (upper few feet) subsurface, and the differential response is more sensitive to metal objects from 3 to 10 feet bgs. The EM-61 can detect a single 55-gallon drum at a depth of more than 10 feet beneath the instrument, yet it is relatively insensitive to interference from nearby surface metal such as fencing, buildings, and automobiles. The instrument is pulled along the ground surface by a single

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operator, and measurements are collected at desired intervals along the ground surface. The terrain at the site may limit the areas where the EM-61 survey can be completed.

A survey of the area will also be performed using a hand-held split-box metal detector (Fisher Model TW-6). The TW-6 is a split-box electromagnetic metal detector that is very sensitive to near surface ferrous metal objects and is very useful in detecting the surface expression of subsurface ferrous objects. This instrument is commonly used to identify buried storage tanks and other metallic objects.

Anomalies detected during the EM surveys will be marked on the ground and further investigated using ground-penetrating radar (GPR).

4.1.2 Ground Penetrating Radar Survey

The GPR survey will be performed in areas of anomalies detected by the EM survey. The GPR method is based upon the transmission of repetitive, radio-frequency EM pulses into the subsurface. When the transmitted energy of down-going wave contacts an interface of dissimilar electrical character, part of the energy is returned to the surface in the form of a reflected signal. This reflected signal is detected by a receiving transducer and is displayed on the screen of the GPR unit as well as being recorded on the internal hard drive.

The received GPR response remains constant as long as the electrical contrast between media is present and constant. Lateral or vertical changes in the electrical properties of the subsurface result in equivalent changes in the GPR responses. The system records a continuous image of the subsurface by plotting two-way travel time of the reflected EM pulse versus distance traveled along the ground surface. Two-way travel time values are then converted to depth using known soil velocity functions. Each radar profile will be examined for characteristic GPR signatures that may indicate the presence of buried targets.

Following the geophysical survey, exploratory test pits may be conducted in the vicinity of anomalies in order to determine their origin.

4.1.3 Exploratory Test Pits

Exploratory test pits may be performed in areas of anomalies identified during the geophysical survey. Test pits will be excavated utilizing a mini-excavator or equivalent. During excavation, soil types, changes in lithology, and wastes (if any) encountered in the test pit will be documented.

If subsurface anomalies such as USTs, buried drums, etc. are identified during performance of test pit activities, their location will be recorded with a gps and they will be addressed later as part of the remedial activities to be performed at the site.

Samples are not anticipated to be collected. However, in the event grossly contaminated media is identified during installation of a test pit, a soil sample shall be collected of the material for characterization. The soil sample will be analyzed for:

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- VOCs by United States Environmental Protection Agency (USEPA) Method 8260 (Part 375 List)
- SVOCs by USEPA Method 8270 (Part 375 List)
- Pesticides/PCBs by USEPA Method 8081/8082 (Part 375 List)
- Trivalent & Hexavalent Chromium by USEPA Method 7196
- Total Cyanide by USEPA Method 9012
- Metals by USEPA Method 6010/7471 (Part 375 List)
- Silvex by USEPA Method 8151
- Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) by USEPA Method 537 Modified
- 1,4-Dioxae by USEPA Method 8270-SIM

Soil samples collected for VOCs will be discrete samples (non-composite and non-homogenous) collected in tera-core sampling devices to minimize VOC loss.

4.2 Additional Characterization of Onsite Soils

Soil sampling will be performed in accordance with DER-10.

To further characterize subsurface conditions, soil borings will be installed throughout the property. A minimum of eight soil borings will be installed to delineate the extent of grossly contaminated media and a minimum of six soil borings will be installed to supplement the overall subsurface conditions. Proposed soil boring locations are shown on **Figure 3**.

Soil borings will be installed utilizing a Geoprobe® direct-push drill rig outfitted with a macro-core sampler and dedicated acetate liners. Soils will be collected continuously from ground surface to 15 feet below grade. Soils will be field screened for the presence of volatile organic vapors using a PID.

4.2.1 Grossly Contaminated Media Delineation

During the Phase II ESA, grossly contaminated media consisting of discolored soils with a slight petroleum odor were observed at the soil/water table interface in several soil borings (see **Figure 3**). Grossly contaminated media was not observed in the unsaturated soils. A minimum of eight soil borings will be installed around the area where grossly contaminated media was observed to delineate the extent and attempt to locate a source. Additional soil borings may be installed based upon field conditions.

A soil sample will be collected from each soil boring at the interval exhibiting the greatest signs of contamination. If contamination is not observed, the interval directly above the soil/water table interface will be collected. Soil samples will be analyzed for:

- VOCs by United States Environmental Protection Agency (USEPA) Method 8260 (Part 375 List)
- SVOCs by USEPA Method 8270 (Part 375 List)
- PFAS by USEPA Method 537 Modified
- 1,4-Dioxane by USEPA Method 8270-SIM

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4.2.2 *Supplemental Site Characterization*

To supplement the existing subsurface soil quality data, a minimum of six additional soil boring will be installed throughout the site. The soil borings will be placed in areas not previously characterized to obtain additional site data. Additional soil borings may be installed based upon field conditions.

A minimum of two soil samples will be collected from each soil boring. A soil sample will be collected from a two-foot interval within the historic fill material and a two-foot interval will be collected from immediately beneath the historic fill material. The two-foot interval within the historic fill material will be biased towards the interval that exhibits the highest concentration of urban fill material. In the event, field screening identifies the potential presence of petroleum impact, an additional sample shall be collected from the two-foot interval exhibiting the highest degree of potential petroleum impact. Additional soil intervals may be collected based upon field conditions. The soil samples will be analyzed for:

- VOCs by USEPA Method 8260 (Part 375 List)
- SVOCs by USEPA Method 8270 (Part 375 List)
- Pesticides/PCBs by USEPA Method 8081/8082 (Part 375 List)
- Trivalent & Hexavalent Chromium by USEPA Method 7196
- Total Cyanide by USEPA Method 9012
- Metals by USEPA Method 6010/7471 (Part 375 List)
- Silvex by USEPA Method 8151
- PFAS by USEPA Method 537 Modified
- 1,4-Dioxane by USEPA Method 8270-SIM

Soil samples collected for VOCs will be discrete samples (non-composite and non-homogenous) collected in tera-core sampling devices to minimize VOC loss.

4.3 Characterization of Onsite Groundwater

Groundwater sampling will be performed in accordance with DER-10.

To characterize groundwater quality beneath the site a minimum of six permanent monitoring wells will be installed. Proposed monitoring well locations are illustrated in **Figure 4**.

4.3.1 *Monitoring Well Construction*

Monitoring wells will be installed using a drill rig outfitted for hollow stem augers. Monitoring wells will be constructed of two-inch diameter, schedule 40 polyvinyl chloride (PVC) casing and screen with 0.010-inch slot. The wells will be constructed with a minimum 10-foot screen section and riser to grade unless precluded by hydrogeologic conditions. The well annulus will be filled with #2 morie sand (or equivalent), to two feet above the well screen. The screen will be set with a minimum of seven (7) feet into and three (3) feet above the water table at the time of installation. A two-foot fine sand layer will be installed above the screen followed by a two-foot bentonite seal. Above the bentonite layer, the annulus around the well will be filled with a

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cement/bentonite grout. A concrete surface pad (2 feet by 2 feet by 6-inch) will be installed. The wells will be finished with flush mount curb boxes. Monitoring well construction logs will be prepared for each monitoring well. These shallow groundwater monitoring wells are often referred to as water table wells.

4.3.2 Monitoring Well Development

Following installation, monitoring wells will be developed by over-pumping to restore the hydraulic properties of the aquifer. Well development will continue until the turbidity of the groundwater is less than or equal to 50 Nephelometric Turbidity Units (NTUs), or when pH, temperature, and conductivity measurements stabilize. Stabilization is considered achieved when three consecutive readings of these field parameters are within five percent of each other over a period of 15 minutes. Monitoring well development water will be containerized for offsite disposal. New monitoring wells will be surveyed relative to an arbitrary onsite datum.

4.3.3 Monitoring Well Sampling

Groundwater samples will be collected in compliance with the USEPA Low Stress (Low Flow) Purging and Sampling Procedure for The Collection of Groundwater Samples From Monitoring Wells (September 2017). A copy of the procedure is included as **Appendix B**.

Groundwater samples will be analyzed for:

- VOCs by USEPA Method 8260 (Full List)
- SVOCs by USEPA Method 8270 (Full List)
- Pesticides/PCBs by USEPA Method 8081/8082
- Metals by USEPA Method 6010/7471 (filtered and unfiltered) (Target Analyte List)
- PFAS by USEPA Method 537 Modified
- 1,4-Dioxane by USEPA Method 8270-SIM

4.4 Determinization of Site-Specific Groundwater Flow Direction

All monitoring wells top of casings and top of manways will be surveyed to a relative datum for the purposes of determining site-specific groundwater flow direction. This information will be utilized on groundwater contour maps generated for the Remedial Investigation Report.

4.5 Soil Vapor Characterization

To determine whether soil vapor intrusion may be a potential concern for the proposed redevelopment of the property, a total of three soil vapor sampling points will be installed. Proposed soil vapor sampling points are illustrated in **Figure 5**.

Soil vapor sampling point installation and sample collection will be performed in accordance with the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006), and USEPA Standard Operating Procedure (SOP) 2042, Soil Gas Sampling.

Sampling points will be installed using a Geoprobe® direct-push drill rig or manually driven rods to a depth comparable to the depth of the future development's foundation footings or at least one foot above the water table. Preliminary designs indicate development footings will likely

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extend to the water table interface, so the sample interval shall be set to one foot above the water table. Sampling points will be constructed of a dedicated stainless-steel screen fitted with inert tubing (e.g. polyethylene or Teflon®) to grade. Porous, inert backfill material (e.g., glass beads, washed #1 crushed stone, etc...) will be added to create a sampling zone 1 to 2 feet in length. The sampling point will be sealed above the sampling zone with bentonite slurry for a minimum distance of 3 feet to prevent outdoor air infiltration and the remainder of the borehole will be backfilled with clean material.

Prior to sampling approximately two to three probe volumes will be purged at a flow rate less than 0.2 liters per minute. VOC concentrations will be recorded during purging utilizing a PID. As part of the vapor intrusion evaluation, a tracer gas will be used in accordance with NYSDOH protocols to serve as a quality assurance/quality control (QA/QC) device to verify the integrity of the soil vapor probe seal. Helium will be used as the tracer gas and a box will serve to keep it in contact with the probe during testing. A portable monitoring device will be used to analyze a sample of soil vapor for the tracer prior to sampling. If the tracer sample results show a significant presence of the tracer, the probe seals will be adjusted to prevent infiltration. At the conclusion of the sampling round, tracer monitoring will be performed a second time to confirm the integrity of the probe seals.

Soil vapor samples will be collected using one-liter SUMMA® canisters fitted with a pre-set flow regulator (approximately 8.3 milliliter per minute (mL/min)). The laboratory will provide certified-clean canisters with an initial vacuum of approximately 26 inches of mercury (in. of Hg) for sample collection and flow regulators pre-set to provide uniform sample collection over an approximate 2-hour sampling period. Sample collection will be ceased (i.e., the valve on the canister closed) when approximately 2 in. of Hg vacuum remains in the canister, leaving a vacuum in the canister as a means for the laboratory to verify the canister did not leak while in transit. Soil vapor samples shall be analyzed for VOCs by USEPA Method TO-15 (Full List).

4.6 Onsite and Offsite Qualitative Human Health Exposure Evaluation

A Qualitative Human Health Exposure Assessment will be completed for the site, characterizing the exposure setting, identifying exposure pathways, and evaluating contaminant fate and transport. The Qualitative Human Health Exposure Assessment will follow DER-10, appendix 3B and Section 3.3 (b) 8.

4.7 Emerging Contamination Sampling

In accordance with NYSDEC requirements, each soil sample and each groundwater sample collected during this RI will be analyzed for 1,4-dioxane and PFAS. The compounds are collectively referred to as “emerging contaminants”.

Samples for emerging contaminants will be collected in accordance with the following NYSDEC guidance documents:

- Guidelines for Sampling and Analysis of PFAS under NYSDEC’s Part 375 Remedial Programs (January 2020).

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Soil and groundwater samples will be analyzed for PFAS by USEPA Method 537 (modified) with a target analyte list as specified in the NYSDEC guidance documents specified above, and for 1,4-dioxane by USEPA Method 8270 (SIM Mode). In accordance with NYSDEC guidance, PFAS analysis will include the following compounds:

Compound Name	Acronym	CAS Number
Perfluorobutanesulfonic acid	PFBS	375-73-5
Perfluorohexanesulfonic acid	PFHxS	355-46-4
Perfluoroheptanesulfonic acid	PFHpS	375-92-8
Perfluorooctanessulfonic acid	PFOS	1763-23-1
Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluorobutanoic acid	PFBA	375-22-4
Perfluoropentanoic acid	PFPeA	2706-90-3
Perfluorohexanoic acid	PFHxA	307-24-4
Perfluoroheptanoic acid	PFHpA	375-85-9
Perfluorooctanoic acid	PFOA	335-67-1
Perfluorononanoic acid	PFNA	375-95-1
Perfluorodecanoic acid	PFDA	335-76-2
Perfluoroundecanoic acid	PFUA/PFUdA	2058-94-8
Perfluorododecanoic acid	PFDoA	307-55-1
Perfluorotridecanoic acid	PFTriA/PFTrDA	72629-94-8
Perfluorotetradecanoic acid	PFTA/PFTeDA	376-06-7
6:2 Fluorotelomer sulfonate	6:2 FTS	27619-97-2
8:2 Fluorotelomer sulfonate	8:2 FTS	39108-34-4
Perfluroroctanesulfonamide	FOSA	754-91-6
N-methyl perfluorooctanesulfonamidoacetic acid	N-MeFOSAA	2355-31-9
N-ethyl perfluorooctanesulfonamidoacetic acid	N-EtFOSAA	2991-50-6

QA/QC procedures for emerging contaminant sampling are included in Section 5.0.

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5.0 QUALITY ASSURACE PROJECT PLAN

This Quality Assurance Project Plan (QAPP) presents the objectives, functional activities, methods, and QA/QC requirements associated with sample collection and laboratory analysis for characterization activities. The QAPP follows requirements detailed in DER-10, Section 2.

5.1 Project Organization

The investigative efforts defined in this RIWP will be implemented by PWGC on behalf of 355 Exterior Street Associates LLC. The following identifies the responsibilities of various organizations supporting the RI:

- The NYSDEC Project Manager (Steve Walsh) will be responsible for reviewing and approving this work plan, coordinating approval of requested modifications, and providing guidance on regulatory requirements.
- The PWGC Program Manager (James Rhodes and/or Paul Boyce) will provide technical expertise for review of the project plans, reports and ongoing field activities.
- The PWGC QA Manager (Andrew Lockwood) will confirm the quality of work associated with the project is in accordance with all project plans.
- PWGC Project Manager (Derek Ersbak) will be responsible for the day-to-day project management, task leadership, and project engineering support and for the planning and implementation of RI activities. The Project Manager is responsible for ensuring that the requirements of this RI work plan are implemented. The project manager will also act as the Site Health and Safety Manager (HSM).
- PWGC Field Team Leader (Kaitlyn Crosby or designee) will be responsible for sample collection, oversight of subcontractor personnel, and coordination of daily field activities. The Field Team Leader will act as the Site Health and Safety Officer ensuring implementation of the Site Health and Safety Plan.
- A NYSDOH Environmental Laboratory Accreditation Program (ELAP) certified laboratory (Alpha Analytical Laboratories of Westborough, Massachusetts ELAP ID 11148 and 11627) will be contracted to perform required analyses and reporting, including Analytical Services Protocol (ASP) Category B Deliverables, which will allow for data validation.
- An independent third-party data validator (Laboratory Data Consultants of Carlsbad, California) will be contracted to perform data validation in accordance with Section 5.7.
- Subcontractors will perform surveying, drilling, and/or sampling at the direction of the Field Team Leader in accordance with this work plan.

Qualifications for the project team are included in **Appendix C**.

5.2 Laboratory Analysis

Requirements for sample analysis are described below. Samples will be submitted to a NYSDOH ELAP certified laboratory (Alpha Analytical) for analysis. Analytical methods, preservation, container requirements, and holding times are summarized below:

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ANALYTICAL METHODS (SOIL)

Analyte/ Analyte Group	Matrix	Method/ SOP	Container(s) (number, size & type per sample)	Preservation	Preparation Holding Time	Analytical Holding Time	Estimated Number of Samples to be Collected
TAL Metals	Soil	USEPA 6010D	1 x 4oz, glass	Cool ≤ 4 °C	180 days	180 days	12
Mercury	Soil	USEPA 7471B	1 x 4oz, glass	Cool ≤ 4 °C	28 days	28 days	12
TCL VOCs	Soil	USEPA 8260C	3 x 40 ml VOA, glass vial	1 x Methanol 2 x DI H_2O Cool ≤ 4 °C	48 hours	14 Days	20
TCL SVOCs	Soil	USEPA 8270D	1 x 4 oz, glass	Cool ≤ 4 °C	14 days	40 days	20
PCBs	Soil	USEPA 8082A	1 x 4 oz, glass	Cool ≤ 4 °C	14 days	40 Days	12
Cyanide	Soil	USEPA 9010C/9012B	1 x 4oz, glass	Cool ≤ 4 °C	14 days	14 days	12
Cr+6	Soil	USEPA 7196A	1 x 4oz, glass	Cool ≤ 4 °C	30 days	30 days	12
Pesticides	Soil	USEPA 8081B	1 x 4 oz, glass	Cool ≤ 4 °C	14 days	40 days	12
PFAS	Soil	USEPA 537 (modified)	1 x 8 oz, glass	Cool ≤ 4 °C	28 days	28 days	20
1,4-dioxane*	Soil	USEPA 8270 (SIM)	1 x 4oz, glass	Cool ≤ 4 °C	14 days	40 days	20
*SIM Mode only necessary if USEPA 8260 analysis cannot meet a MDL of 0.1 mg/kg							

ANALYTICAL METHODS (SOIL VAPOR)

Analyte/ Analyte Group	Matrix	Method/ SOP	Container(s) (number, size & type per sample)	Preservation	Preparation Holding Time	Analytical Holding Time	Estimated Number of Samples to be Collected
VOCs	Soil Vapor	USEPA TO-15	2.7L/6L SUMMA Canister	None	None	30	3

ANALYTICAL METHODS (GROUNDWATER)

Analyte/ Analyte Group	Matrix	Method/ SOP	Container(s) (number, size & type per sample)	Preservation	Preparation Holding Time	Analytical Holding Time	Estimated Number of Samples to be Collected
Metals	Water	USEPA 6020B	1 x 250 ml plastic	HNO3 Cool ≤ 4 °C	180 days	180 days	6
Mercury	Water	USEPA 7470A	1 x 250 ml plastic	HNO3 Cool ≤ 4 °C	28 days	28 days	6
VOCs	Water	USEPA 8260C	3 x 40 ml VOA Vials	HCl Cool ≤ 4 °C	None	14 Days	6
SVOCs	Water	USEPA 8270D	2 x 250 ml, amber glass	Cool ≤ 4 °C	7 days	40 days	6

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Analyte/ Analyte Group	Matrix	Method/ SOP	Container(s) (number, size & type per sample)	Preservation	Preparation Holding Time	Analytical Holding Time	Estimated Number of Samples to be Collected
PCBs	Water	USEPA 8082A	2 x 120 ml, amber glass	Cool ≤ 4 °C	7 days	40 Days	6
Pesticides	Water	USEPA 8081B	2 x 120 ml, amber glass	Cool ≤ 4 °C	7 days	40 days	6
PFAS	Water	USEPA 537 (modified)	4 x 250 ml HDPE, unlined cap	Trizma Cool < 4 °C	14 days	28 days	6
1,4-Dioxane*	Water	USEPA 8270D SIM Mode	2 x 250 ml, Glass	Cool ≤ 4 °C	7 days	40 days	6
*SIM Mode to be used to meet required detection limit of 0.35 ug/L							

Laboratory MDLs and Reporting Limits (RLs) for PFAS analysis are detailed in the tables below:

PFAS MDLs & RLs (SOIL)

Analyte	CAS Number	RL (ng/g)	MDL (ng/g)
Perfluorobutanoic Acid (PFBA)	375-22-4	1	0.0213
Perfluoropentanoic Acid (PFPeA)	2706-90-3	1	0.01035
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	1	0.0635
Perfluorohexanoic Acid (PFHxA)	307-24-4	1	0.064
Perfluoroheptanoic Acid (PFHpA)	375-85-9	1	0.064
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	1	0.057
Perfluorooctanoic Acid (PFOA)	335-67-1	1	0.04105
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	1	0.198
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	1	0.136
Perfluorononanoic Acid (PFNA)	375-95-1	1	0.083
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	1	0.1205
Perfluorodecanoic Acid (PFDA)	335-76-2	1	0.072
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	1	0.275
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	1	0.103
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	1	0.056
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	1	0.097
Perfluorooctanesulfonamide (FOSA)	754-91-6	1	0.1025
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	1	0.09
Perfluorododecanoic Acid (PFDoA)	307-55-1	1	0.086
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	1	0.062
Perfluorotetradecanoic Acid (PFTA)	376-06-7	1	0.07
PFOA/PFOS, Total		1	0.04105

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PFAS MDLs & RLs (GROUNDWATER)

Analyte	CAS Number	RL (ng/L)	MDL (ng/L)
Perfluorobutanoic Acid (PFBA)	375-22-4	2	0.3732
Perfluoropentanoic Acid (PFPeA)	2706-90-3	2	0.464
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	2	0.38
Perfluorohexanoic Acid (PFHxA)	307-24-4	2	0.492
Perfluoroheptanoic Acid (PFHpA)	375-85-9	2	0.372
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	2	0.436
Perfluorooctanoic Acid (PFOA)	335-67-1	2	0.46
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	2	0.194
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	2	0.52
Perfluorononanoic Acid (PFNA)	375-95-1	2	0.436
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2	0.56
Perfluorodecanoic Acid (PFDA)	335-76-2	2	0.62
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	2	0.2908
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	2	0.2504
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	2	0.424
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	2	0.386
Perfluorooctanesulfonamide (FOSA)	754-91-6	2	0.556
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	2	0.3728
Perfluorododecanoic Acid (PFDoA)	307-55-1	2	0.592
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	2	0.314
Perfluorotetradecanoic Acid (PFTA)	376-06-7	2	0.988
PFOA/PFOS, Total		2	0.46

The laboratory standard operating procedures for PFAS analysis are included in **Appendix D**.

5.2.1 Soil Samples

Soil samples will be collected as described in Section 4.2. Analysis will conform to NYSDEC ASP Category B data deliverables in accordance with NYSDEC DER-10, Appendix 2B, 1.0 (b), including calibration standards, surrogate recoveries, and chromatograms.

5.2.2 Groundwater Samples

Groundwater samples will be collected as described in Section 4.3. Analysis will conform to NYSDEC ASP Category B data deliverables in accordance with NYSDEC DER-10, Appendix 2B, 1.0 (b), including calibration standards, surrogate recoveries, and chromatograms.

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5.2.3 Soil Vapor Samples

Soil vapor samples will be collected as described in Section 4.5. Analysis will conform to NYSDEC ASP Category B data deliverables in accordance with NYSDEC DER-10, Appendix 2B, 1.0 (b), including calibration standards, surrogate recoveries, and chromatograms.

5.3 Field/Laboratory Data Control Requirements

QC procedures will be followed in the field and at the laboratory to facilitate that reliable data are obtained. When performing field sampling, care shall be taken to prevent the cross-contamination of sampling equipment, sample bottles, and other equipment that could compromise sample integrity. QC samples will include the following:

- Blind Duplicates – one per 20 environmental samples for each matrix sampled.
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) - one per 20 environmental samples for each matrix sampled.
- Equipment Blank – one per day for each matrix sampled.
- Field Blank – one per day when PFAS samples are collected.
- Trip Blank – one per day.

ESTIMATED QA/QC SAMPLE FREQUENCY

QA/QC Sample Type	Est. Total Soil Samples	Est. Days of Soil Sampling	Est. Total Soil QA/QC Samples	Est. Total Groundwater Samples	Est. Days of Groundwater Sampling	Est. Total Groundwater QA/QC Samples
Blind Duplicate	20	2	1	6	1	1
MS/MSD	20	2	1	6	1	1
Equipment Blank	NA	2	2	6	1	1
Field Blank	NA	2	2	6	1	1
Trip Blank	20	2	2	6	1	1

QA/QC Sample analysis will conform to NYSDEC ASP Category B data deliverables in accordance with NYSDEC DER-10, Appendix 2B, 1.0 (b), including calibration standards, surrogate recoveries, and chromatograms.

5.4 Special Sampling Considerations for PFAS Sampling

There are several potential sources of PFAS that could contribute to the cross-contamination of environmental samples collected during the RI. Weatherproof clothing, pens, logbooks, cosmetics, personal hygiene products, insect repellents, and sampling equipment could contain PFAS that could lead to false positive sampling results.

To ensure that the analytical results obtained during the RI are representative of the actual site conditions several measures should be taken:

- Collection of appropriate field QA/QC samples (blanks, duplicates, equipment rinseate samples, etc.) as detailed in Section 5.3.
- Analysis by the analytical laboratory using established laboratory QA/QC procedures and methods as detailed in Section 5.2.

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- During decon, non-dedicated equipment to be used for PFAS sampling will be rinsed with PFAS free water supplied by the laboratory. Equipment will be allowed to fully air dry before use.
- New high-density polyethylene (HDPE) tubing shall be used at each sample location.
- Groundwater samples will be collected in laboratory supplied HDPE containers.
- New nitrile gloves shall be worn between each sample interval.
- Only clean cotton or synthetic clothes shall be worn – preferably washed more than six times, and without the use of fabric softeners. No waterproof or insecticide treated clothing, boots or rain jackets made or treated with Teflon products shall be used at the collection site. This includes all Gore-Tex® and Tyvek® products.
- Do not apply moisturizers or hand creams to hands or face on the day of sampling. No sunblock or insect repellants. Do not bring packaged food to the work site or use aluminum foil.
- Field notes shall be taken using a computer tablet or by using ink pens on non-waterproof plain paper attached to a metal clipboard. Do not use Sharpies or markers. Transcribe field notes to Chain-of-Custody forms and official field books when back in the office after the collection process.
- For groundwater samples use only laboratory supplied 250 ml polypropylene sample bottles. Sample bottles should be pre-preserved by the laboratory, if dictated by the analysis method.
- Print labels before going into the field and apply to the sample containers.
- Use only laboratory supplied PFAS-free water for trip, field and equipment blanks.
- Place each sample container in a separate polypropylene zip-lock bag.
- For the shipping coolers, use only regular crushed ice packaged in polypropylene zip-lock plastic bags.
- Use only laboratory supplied shipping coolers that were used to ship sample containers for this project. Tape the cooler shut before shipping samples to the laboratory.

5.5 Sample Identification

Each sample will be identified with a set of information relating individual sample characteristics. Required information consists of Sample Designation, Depth, Date, Time, and Matrix. Examples of sample IDs are shown below.

- SB001(0-2') (soil sample, boring 001 from 0 to 2 feet)
- MW004 (groundwater sample, permanent monitoring well 004)
- SV001 (temporary soil vapor point 001)

Sample frequency, locations, depths, and nomenclature may change subject to field decisions and professional judgment.

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5.6 Chain-of-Custody, Sample Packaging and Shipment

A chain-of-custody/request for analysis form will be completed and submitted to the laboratory with samples to be analyzed. A copy of the chain-of-custody will be retained by the Project Manager. The chain-of-custody will include the project name, sampler's signature, sample IDs, date and time of sample collection, and analysis requested.

Samples will be packaged and shipped in a manner that maintains sample preservation requirements during transport (i.e., ice to keep samples cool until receipt at the laboratory), ensures that sample holding times can be achieved by the laboratory, and prevents samples from being tampered with.

If a commercial carrier ships samples, a bill of lading (waybill) will be used as documentation of sample custody. Receipts for bills of lading and other documentation of shipment shall be maintained as part of the permanent custody documentation. Commercial carriers are not required to sign the chain-of-custody as long as it is enclosed in the shipping container and evidence tape (custody seal) remains in place on the shipping container.

5.7 Data Usability and Validation

The main purpose of the data is for use in defining the extent of contamination at the site, to aid in evaluation of potential human health and ecological exposure assessments, and to support remedial action decisions. Based upon this, data usability and validation will be performed as described below. Complete data packages will be archived in the project files, and if deemed necessary additional validation can be performed using procedures in the following sections.

Data collected as part of the Phase II ESA will be validated in accordance with Sections 5.7.1 and 5.7.2.

5.7.1 Data Usability and Validation Requirements

Data usability and validation are performed on analytical data sets, primarily to confirm that sampling and chain-of-custody documentation are complete, sample IDs can be tied to specific sampling locations, samples were analyzed within the required holding times, and analyses are reported in conformance with NYSDEC ASP, Category B data deliverable requirements as applicable to the method utilized.

5.7.2 Data Usability and Validation Methods

A designee of the PWGC Project Manager will complete a data usability evaluation for the data collected during the RI and a data usability summary report (DUSR) will be prepared. The DUSR will be prepared in accordance with NYSDEC DER-10, Appendix 2B.

Independent third-party data validation will be performed on 5% of the sample data, or on one sample from each sample delivery group (SDG), whichever is greater. Data validation will be performed by Laboratory Data Consultants.

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5.8 Field Equipment Calibration

Equipment will be inspected and approved by the Field Team Leader before being used. Equipment will be calibrated to factory specifications, if required. Monitoring equipment will be calibrated following manufacturers recommended schedules. Daily field response checks and calibrations will be performed as necessary (i.e. PID calibrations) following manufacturers standard operating procedures. Equipment calibrations will be documented in a designated field logbook.

5.9 Equipment Decontamination

In order to minimize the potential for cross-contamination, non-dedicated drilling and sampling equipment shall be properly decontaminated prior to and between sampling/drilling locations.

5.9.1 General Procedures

Drilling equipment will be decontaminated in a designated area. Sampling equipment and probes will be decontaminated in an area covered with plastic sheeting near the sampling location. Waste material generated during decontamination activities will be containerized, stored and disposed of in accordance with the procedures detailed in Section 5.10. Decontamination of sampling equipment shall be kept to a minimum, and wherever possible, dedicated sampling equipment shall be used. Personnel directly involved in equipment decontamination shall wear appropriate personal protective equipment (PPE).

5.9.2 Drilling Equipment

Drilling equipment shall be decontaminated prior to performance of the first boring/excavation and between all subsequent borings/excavations. This shall include hand tools, casing, augers, drill rods, temporary well material and other related tools and equipment. Water used during drilling and/or steam cleaning operations shall be from a potable source.

5.9.3 Sampling Equipment

Sampling equipment (i.e., trowels, knives, split-spoons, bowls, hand augers, etc...) will be decontaminated prior to each use as follows:

- Laboratory-grade glassware detergent and tap water scrub to remove visual contamination
- Generous tap water rinse
- Distilled water rinse

5.9.4 Meters and Probes

All meters and probes that are used in the field (other than those used solely for air monitoring purposes, e.g., PID meters) will be decontaminated between uses as follows:

- Laboratory-grade detergent and tap water solution wash
- Tap water rinse
- Distilled water rinse (triple rinse)

5.10 Management of Investigation Derived Waste

Waste materials generated from the field operations may consist of soil and rock cuttings, purge water, and miscellaneous solid materials such as PPE and supplies. Investigative derived waste (IDW) generated during field operations will be disposed of in accordance with applicable regulations.

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Soil cuttings generated from soil boring and well installation activities will be stored in 55-gallon drums. Drums will be labeled to indicate the source of the material and will be stored in a designated area onsite. Soil and/or rock cores and cuttings will be field screened using a PID, while performing drilling operations. Drummed material will be disposed of at an offsite disposal facility. Following receipt of the analytical results, recommendations for disposition of the drummed material will be provided to the NYSDEC.

Development and purge water generated during the field activities will be stored in a portable holding tank and/or 55-gallon drums. Drums will be labeled to indicate the source of the fluid and will be stored in a designated area onsite. Drummed groundwater will be sampled to determine if discharge to the surface of the site is appropriate or offsite disposal is required. Following receipt of the groundwater sampling results, recommendations for disposition of the water will be provided to NYSDEC.

5.11 Field Documentation

Documentation will take place on either appropriate forms or in a dedicated site logbook. Permanent black or blue ink will be used to record information in the logbook. Errors in field documentation will be lined through, initialed, dated, and corrected. Forms will be kept by the PWGC Field Team Leader during the field activities. Field activities will be documented in the field logbook. The logbook will contain pages that are consecutively numbered and be permanently bound with a hard cover. Upon completion of daily activities, unused portions of pages will be lined-through and initialed.

The primary purpose of the field logbook is to document the daily field activities and to provide descriptions of each activity. All entries in the field logbook will be recorded and dated by person making the entry.

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6.0 REMEDIAL INVESTIGATION REPORT PREPARATION

The RIR will incorporate the methods and findings of the investigation activities performed as outlined in this work plan. The report will identify specific contamination concentrations throughout each media (e.g. soil, groundwater, etc.), delineate the extent of contamination in soil and groundwater, evaluate potential exposure pathways, and provide conclusions and recommendations for additional investigation and/or remedial action. Electronic copies of the Investigation Report will be submitted to the NYSDEC along with hard copies. Analytical results of the investigation will be submitted in the electronic data delivery (EDD) format through the Department's environmental information management system (EIMS).

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7.0 HEALTH AND SAFETY

7.1 Statement of Commitment

Onsite employees may be exposed to chemical contaminants of concern identified within the soil/fill during the planned remedial investigation activities to be performed on the 355 Exterior Street, Bronx, New York project site. PWGC's policy is to minimize the possibility of work-related exposure through awareness and qualified supervision, health and safety training, use of appropriate PPE, and the following activity specific safety protocols contained in this Health and Safety Plan (HASP). PWGC has established a guidance program to implement this policy in a manner that protects personnel to the maximum reasonable extent.

This HASP describes emergency response procedures for actual and potential chemical hazards. Persons are to acknowledge that they understand the potential hazards and the contents of this Health and Safety policy by signing off on receipt of their individual copy of the document. Contractors and suppliers are retained as independent contractors and are responsible for ensuring the health and safety of their own employees as it relates to general construction practices.

7.2 Introduction and Site Entry Requirements

This document describes the health and safety guidelines developed by PWGC at the request of 355 Exterior Street Associates LLC for the proposed RI to be performed at the 355 Exterior Street, Bronx, New York site to protect on-site personnel, visitors, and the public from exposure to potential hazardous materials or wastes. In accordance with the Occupational Safety and Health Administration (OSHA) 29 Code of Federal Regulations (CFR) Part 1910.120 Hazardous Waste Operations and Emergency Response Final rule, this HASP, including the attachments, addresses safety and health hazards relating to each phase of site operations and is based on the best information available. The HASP may be revised by PWGC at the request of 355 Exterior Street Associates LLC upon receipt of new information regarding site conditions. Changes will be documented by written amendments.

7.2.1 Site Safety Plan Acceptance, Acknowledgment and Amendments

The project superintendent and the site safety officer are responsible for informing personnel entering the work area of the contents of this plan and ensuring that each person signs the safety plan acknowledging the on-site hazards and procedures required to minimize exposure to adverse effects of these hazards. A copy of the Acknowledgement Form is included below.

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SITE SAFETY PLAN ACKNOWLEDGMENT FORM

I have been informed and understand the procedures set forth in the HASP and amendments:

Printed Name	Signature	Representing	Date

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Site conditions may warrant an amendment to the HASP. Amendments to the HASP are acknowledged by completing form on the next page.

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SITE SAFETY PLAN AMENDMENT FORM

Site Safety Plan Amendment #_____:_____

Site Name: _____

Reason for Amendment:

_____
_____
_____
_____

Alternative Procedures: _____
_____
_____
_____

Required Changes in PPE:_____
_____
_____
_____

_____ _____
Project Superintendent Date

_____ _____
Health & Safety Consultant Date

_____ _____
Site Safety Officer Date

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7.2.2 *Daily Safety Meetings*

Each day before work begins; the site safety officer will hold safety (tailgate or toolbox) meetings to ensure that onsite personnel understand the site conditions and operating procedures and to address safety questions and concerns. Meeting minutes and attendance will be recorded. Project staff will discuss and remedy health and safety issues at these meetings.

7.2.3 *Key Personnel – Roles and Responsibilities*

The following key personnel are planned for this project:

- Project Manager – Mr. Derek Ersbak, P.G. or alternate
- Site Safety Officer – Ms. Kaitlyn Crosby or alternate

The project manager is responsible for overall project administration and, with guidance from the site safety officer, for supervising the implementation of this HASP. The site safety officer will conduct daily (tail gate or toolbox) safety meetings at the project site and oversee daily safety issues. Each subcontractor and supplier (defined as an OSHA employer) is also responsible for the health and safety of its employees. If there is any dispute about health and safety or project activities, on-site personnel will attempt to resolve the issue. If the issue cannot be resolved at the site, then the project manager will be consulted.

The site safety officer is responsible for the following:

1. Educating personnel about information in this HASP and other safety requirements to be observed during site operations, including, but not limited to, designation of work zones and levels of protection and emergency procedures dealing with fire and first aid.
2. Coordinating site safety decisions with the project manager.
3. Monitoring the condition and status of known on-site hazards specified in this HASP.
4. Maintaining records of safety problems, corrective measures and documentation of chemical exposures or physical injuries (the site safety officer will document these conditions in a bound notebook and maintain a copy of the notebook on-site).

The person who observes safety concerns and potential hazards that have not been addressed in the daily safety meetings should immediately report their observations/concerns to the site safety officer or appropriate key personnel.

7.3 **Chemical Hazards**

Soil analytical results detected concentrations of VOCs, SVOCs and metals in exceedance of RRUSCOs in several of the boring locations. The majority of contaminants were located in the shallow intervals where historic fill was observed and at the water table interface. No PCBs or Pesticides were detected at concentrations in excess of the RRUSCOs.

VOCs:
Soil concentrations of 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene exceeded RRUSCOs.

SVOCs:

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Soil concentrations of 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 RRUSCOs.

Metals:
Soil concentrations of arsenic, copper, lead, and mercury exceeded RRUSCOs.

Appendix E includes information sheets for the known and suspected chemicals that may be encountered at the site.

7.4 Personal Protective Equipment

PPE shall be selected in accordance with OSHA 29 CFR 1910.120(c), (g), and 1910.132. Protective equipment shall be National Institute for Occupational Safety and Health (NIOSH) approved and respiratory protection shall conform to OSHA 29 CFR Part 1910.133 and 1910.134 specifications; head protection shall conform to 1910.135; eye and face protection shall conform to 1910.133; and foot protection shall conform to 1910.136. The only true difference among the levels of protection from D thru B is the addition of the type of respiratory protection. **It is anticipated that work will be performed in Level D PPE.**

7.4.1 Level D

Level D PPE shall be donned when the atmosphere contains no known hazards and work functions preclude splashes, immersion, or the potential for inhalation of, or contact with, hazardous concentrations of harmful chemicals. Level D PPE consists of:

- standard work uniform, coveralls, or Tyvek*, as needed;
- steel toe work boots;
- hard hat;
- gloves, as needed;
- safety glasses;
- hearing protection;
- equipment replacements are available as needed.

*Tyvek shall not be worn when sampling for PFAS.

7.4.2 Level C

Level C PPE shall be donned when the concentrations of measured total organic vapors in the breathing zone exceed background concentrations (using a portable PID, or equivalent), but are less than 5 ppm. The specifications on the air purifying respirator (APR) filters used must be appropriate for contaminants identified or expected to be encountered. Level C PPE shall be donned when the identified contaminants have adequate warning properties and criteria for using APR have been met. Level C PPE consists of:

- chemical resistant or coated Tyvek* coveralls;
- steel-toe work boots;
- chemical resistant over boots or disposable boot covers;

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- disposable inner gloves (surgical gloves);
- disposable outer gloves;
- full face APR fitted with organic vapor/dust and mist filters or filters appropriate for the identified or expected contaminants;
- hard hat;
- splash shield, as needed; and,
- ankles/wrists taped with duct tape.

*Tyvek shall not be worn when sampling for PFAS.

The site safety officer will verify if Level C is appropriate by checking organic vapor concentrations using compound and/or class-specific detector tubes.

7.4.3 Level B

Level B PPE shall be donned when the contaminants have not been identified and/or the concentrations of unknown measured total organic vapors in the breathing zone exceed 5 ppm (using a portable PID, or equivalent). Level B PPE shall be donned if the Immediately Dangerous to Life and Health (IDLH) of a known contaminant is exceeded. If a contaminant is identified or is expected to be encountered for which the NIOSH and/or OSHA recommend the use of a positive pressure self-contained breathing apparatus (SCBA) when that contaminant is present, Level B PPE shall be donned even though the total organic vapors in the breathing zone may not exceed 5 ppm. Level B shall be donned for confined space entry, and when the atmosphere is oxygen deficient (oxygen less than 19.5%) or potentially oxygen deficient. If Level B PPE is required for a task, at least three people shall be donned in Level B at any one time during that task. PPE shall only be donned at the direction of the site safety officer. Level B PPE consists of:

- supplied air SCBA or airline system with five-minute egress system;
- chemical resistant coveralls;
- steel-toe work boots;
- chemical resistant over boots or disposable boot covers;
- disposable inner gloves;
- disposable outer gloves;
- hard hat; and,
- ankles/wrists taped.

The exact PPE ensemble is decided on a site-by-site basis by the PWGC Health and Safety Officer with the intent to provide the most protective and efficient worker PPE.

7.5 Contingency Plan

Site personnel must be prepared in the event of an emergency. Emergencies can take many forms: illnesses, injuries, chemical exposure, fires, explosions, spills, leaks, releases of harmful contaminants, or sudden changes in the weather.

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Emergency telephone numbers and a map to the hospital (Figure 6) will be posted in the command post. Site personnel should be familiar with the emergency procedures, and the locations of site safety, first aid, and communication equipment.

7.5.1 Emergency Equipment Onsite

Private telephones:	Site personnel.
Two-way radios:	Site personnel where necessary.
Emergency Alarms:	Onsite vehicle horns*.
First aid kits:	Onsite, in vehicles or office.
Fire extinguisher:	Onsite, in office or on equipment.

* Horns: Air horns will be supplied to personnel at the discretion of the project superintendent or site safety officer.

7.5.2 Emergency Telephone Numbers

General Emergencies	911
New York City Police	911
Lincoln Medical Center	1-718-579-5000
NYSDEC Spills Division	1-800-457-7362
NYSDEC Hazardous Waste Division	1-718-482-4996
NYCDEP	1-212-639-9675
NYC Department of Health	1-212-788-4711
NYC Fire Department	911
National Response Center	1-800-424-8802
Poison Control	1-212-764-7667

A copy of this page shall be posted in the office.

7.5.3 Personnel Responsibilities During an Emergency

The project manager is primarily responsible for responding to and correcting any emergency situations. However, in the absence of the project manager, the site safety officer shall act as the project manager's on-site designee and perform the following tasks:

- Take appropriate measures to protect personnel;
- Ensure that appropriate federal, state, and local agencies are informed, and emergency response plans are coordinated. In the event of fire or explosion, the local fire department should be summoned immediately. If toxic materials are released to the air, the local authorities should be informed in order to assess the need for evacuation;
- Ensure appropriate decontamination, treatment, or testing for exposed or injured personnel;
- Determine the cause of incidents and make recommendations to prevent recurrence; and,
- Ensure that all required reports have been prepared.

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7.5.4 Medical Emergencies

A person who becomes ill or injured, first aid will be administered while waiting for an ambulance or paramedics. A Field Accident Report (**Appendix F**) must be filled out for any injury.

A person transporting an injured/exposed person to a clinic or hospital for treatment will take the directions to the hospital and information on the chemical(s) to which they may have been exposed.

7.5.5 Fire or Explosion

In the event of a fire or explosion, the local fire department will be summoned immediately. The site safety officer or his designated alternate will advise the fire commander of the location, nature and identification of the hazardous materials on-site. If it is safe to do so, site personnel may:

- use firefighting equipment available on site; or,
- remove or isolate flammable or other hazardous materials that may contribute to the fire.

7.5.6 Evacuation Routes

Evacuation routes established by work area locations for each site will be reviewed prior to commencing site operations. As the work areas change, the evacuation routes will be altered accordingly, and the new route will be reviewed.

Under extreme emergency conditions, evacuation is to be immediate without regard for equipment. The evacuation signal will be a continuous blast of a vehicle horn, if possible, and/or by verbal/radio communication. When evacuating the site, personnel will follow these instructions:

- Keep upwind of smoke, vapors, or spill location.
- Exit through the decontamination corridor if possible.
- If evacuation through the decontamination corridor is not possible, personnel should remove contaminated clothing once they are in a safe location and leave it near the exclusion zone or in a safe place.
- The site safety officer will conduct a head count to ensure that all personnel have been evacuated safely. The head count will be correlated to the site and/or exclusion zone entry/exit log.
- If emergency site evacuation is necessary, all personnel are to escape the emergency situation and decontaminate to the maximum extent practical.

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8.0 COMMUNITY AIR MONITORING PLAN

Real-time air monitoring for volatile organic vapors and particulate levels at the perimeter of the work area will be performed. Continuous monitoring will be performed for ground intrusive activities. Ground intrusive activities include, but are not limited to, test pit excavation or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for volatile organic vapors will be performed during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. Periodic monitoring during sample collection, for instance, will consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well bailing/purging, and taking a reading prior to leaving a sample location. Depending upon the proximity of potentially exposed individuals, continuous monitoring may be performed during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence. Exceedances of action levels observed during performance of the CAMP will be reported to the NYSDEC Project Manager and included in the Daily Report.

8.1 Volatile-Organic Vapor Monitoring, Response-Levels, and Actions

Volatile organic vapors will be monitored at the downwind perimeter of the immediate work area on a continuous basis during invasive work. Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work will be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment will be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment will be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 ppm above background for the 15-minute average, work activities will be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities will resume with continued monitoring.
- If total organic vapor levels at the downwind perimeter of the work area persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities will resume provided that the total organic vapor level 200 feet downwind of the work area or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.
- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities will be shutdown.

15-minute readings must be recorded and be available for NYSDEC personnel to review. Instantaneous readings, if any, used for decision purposes will also be recorded.

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8.2 Particulate Monitoring, Response-Levels, and Actions

Particulate concentrations will be monitored continuously at the upwind and downwind perimeters of the work area at temporary particulate monitoring stations. The particulate monitoring will be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment will be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (µg/m3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work will continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 µg/m3 above the upwind level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 µg/m3 above the upwind level, work will be stopped, and a re-evaluation of activities initiated. Work will resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 µg/m3 of the upwind level and in preventing visible dust migration.

Readings will be recorded and be available for NYSDEC personnel to review.

8.3 Odor and Dust Control

8.3.1 Odor Control

Necessary means will be employed to prevent on and offsite odor nuisances. At a minimum, procedures will include: (a) limiting the area of open excavations; (b) shrouding open excavations with tarps and other covers; and (c) use of foams to cover exposed odorous soils. If odors develop and cannot otherwise be controlled, additional means to eliminate odor nuisances will include: (d) use of chemical odorants in spray or misting systems.

This odor control plan is capable of controlling emissions of nuisance odors. If nuisance odors are identified, work will be halted, and the source of odors will be identified and corrected. Work will not resume until nuisance odors have been abated. NYSDEC will be notified of odor complaint events. Implementation of odor controls will be the responsibility of the contractor.

8.3.2 Dust Control

Dust management during invasive on-site work will include, at a minimum:

- Use of a dedicated water spray methodology for roads, excavation areas and stockpiles.
- Exercise extra care during dry and high-wind periods.
- Use of gravel or RCA on egress and other roadways to provide a clean and dust-free road surface.

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This dust control plan is capable of controlling emissions of dust. If nuisance dust emissions are identified, work will be halted, and the source of dusts will be identified and corrected. Work will not resume until nuisance dust emissions have been abated. NYSDEC will be notified of dust complaint events. Implementation of dust controls will be the responsibility of the contractor.

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9.0 PROJECT SCHEDULE

The preliminary schedule for the major project milestones is presented in **Table 1**. Field work is anticipated to be completed in June 2020, following approval of this RIWP by NYSDEC. A draft RI Report should be submitted to the NYSDEC by July 2020.

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10.0 REFERENCES

NYSDEC, Division of Environmental Restoration, 6 NYCRR Part 375 Subpart 6, Remedial Program Soil Cleanup Objectives

NYSDEC, Division of Environmental Remediation, May 2010, Draft DER-10, Technical Guidance for Site Investigation and Remediation.

NYSDEC, Division of Environmental Remediation, January 2020, Guidelines for Sampling and Analysis of PFAS Under NYSDEC's Part 375 Remedial Programs.

NYSDEC, Division of Water, June 1998, Addendum April 2000, Technical and Operational Guidance Series 1:1:1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.

NYSDOH, October 2006 Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York.

NYSDOH, May 2017, Update to Soil Vapor / Indoor Air Matrices.

USEPA, September 2017, Low Street (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells.

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FIGURES

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SITE LOCATION

355 Exterior Street
Bronx, NY

0 ¼ ½ ¾ 1 Miles

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Project:	LST1802
Date:	9/20/2019
Designed by:	DE
Drawn by:	TS
Approved by:	DE
Figure No:	1

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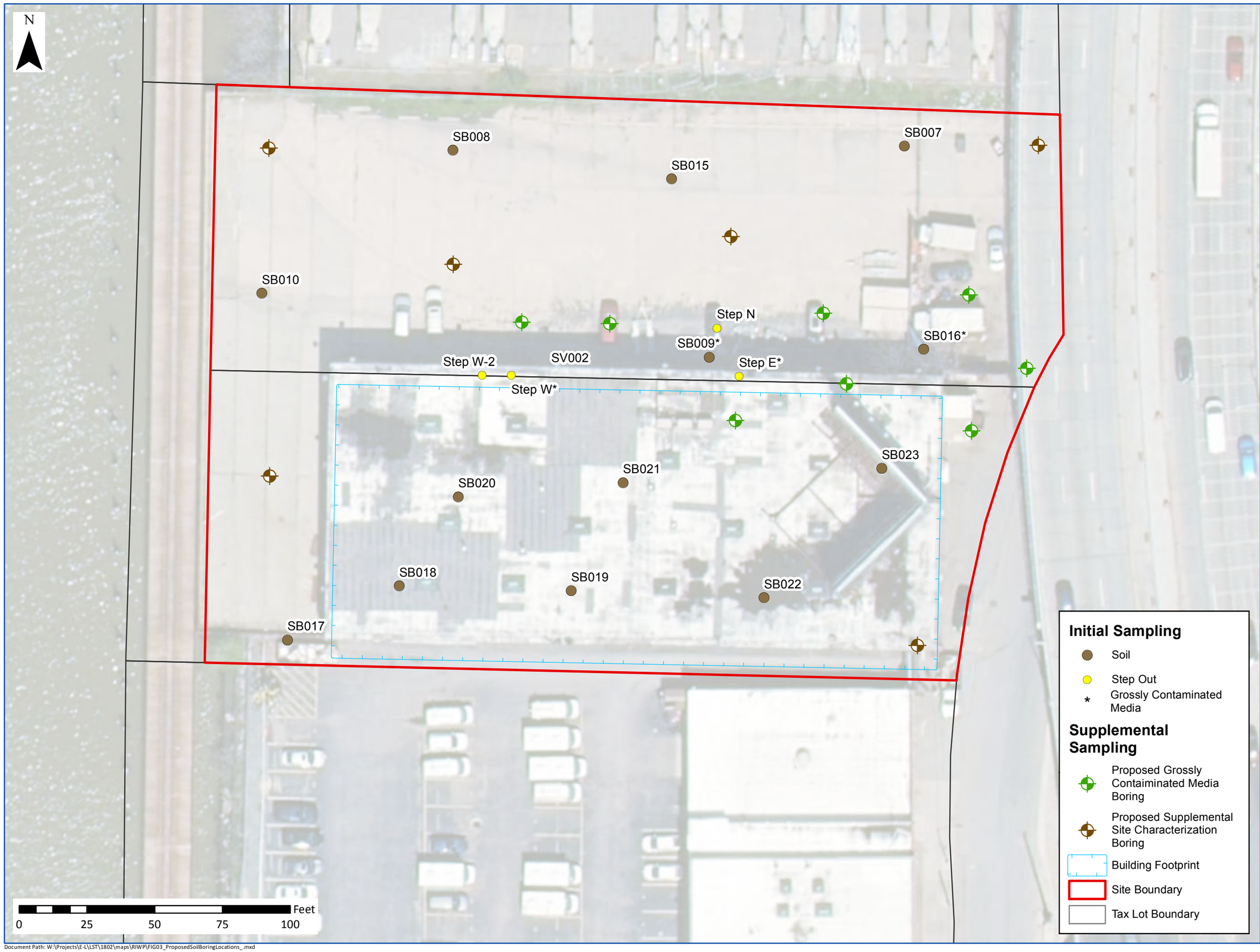
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Site Plan

355 Exterior Street
Bronx, NY

FIGURE NO:

2



Initial Sampling

- Soil
- Step Out
- * Grossly Contaminated Media

Supplemental Sampling

- Proposed Grossly Contaiminated Media Boring
- Proposed Supplemental Site Characterization Boring
- Building Footprint
- Site Boundary
- Tax Lot Boundary

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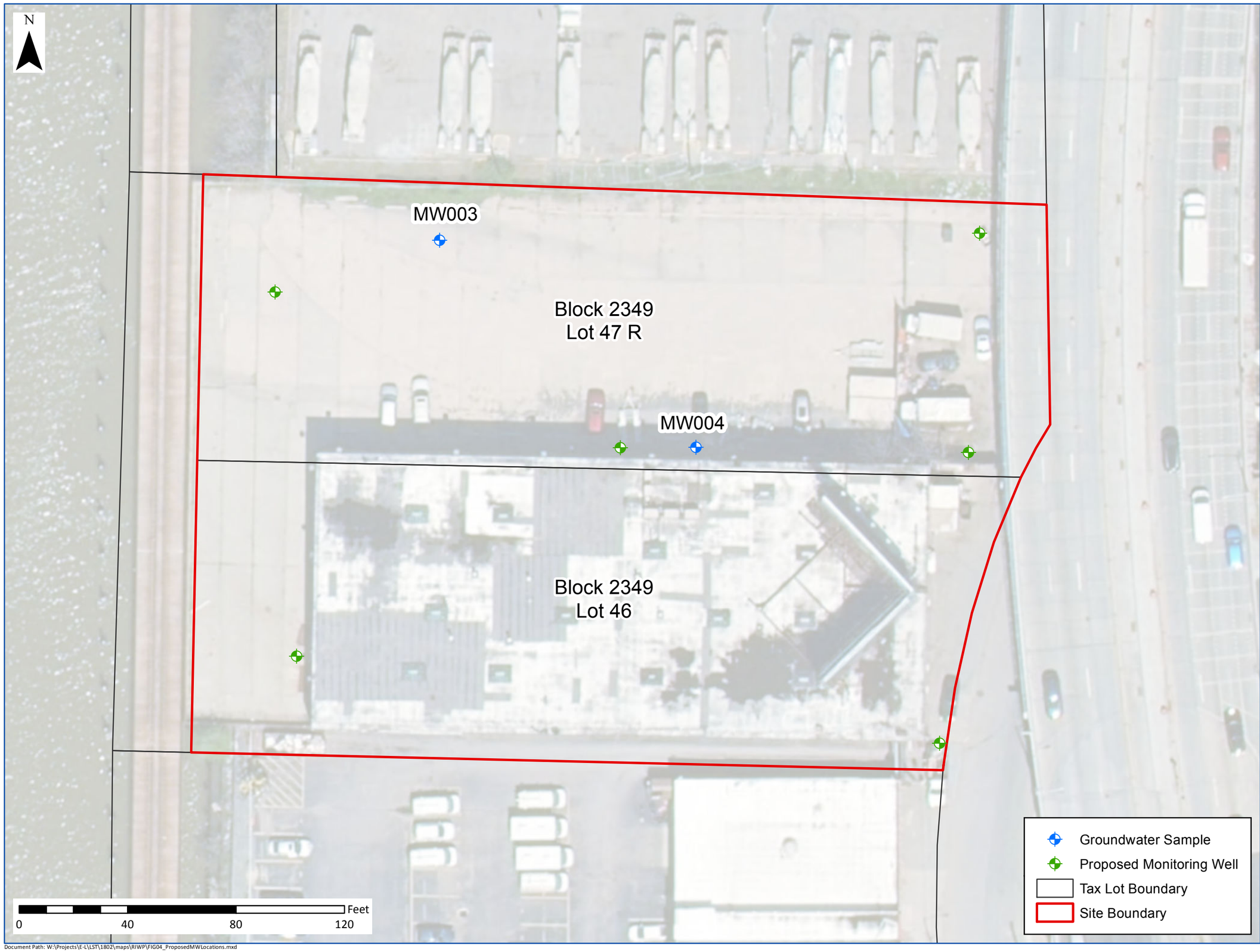
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Proposed Soil Boring Locations

355 Exterior Street
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FIGURE NO:

3



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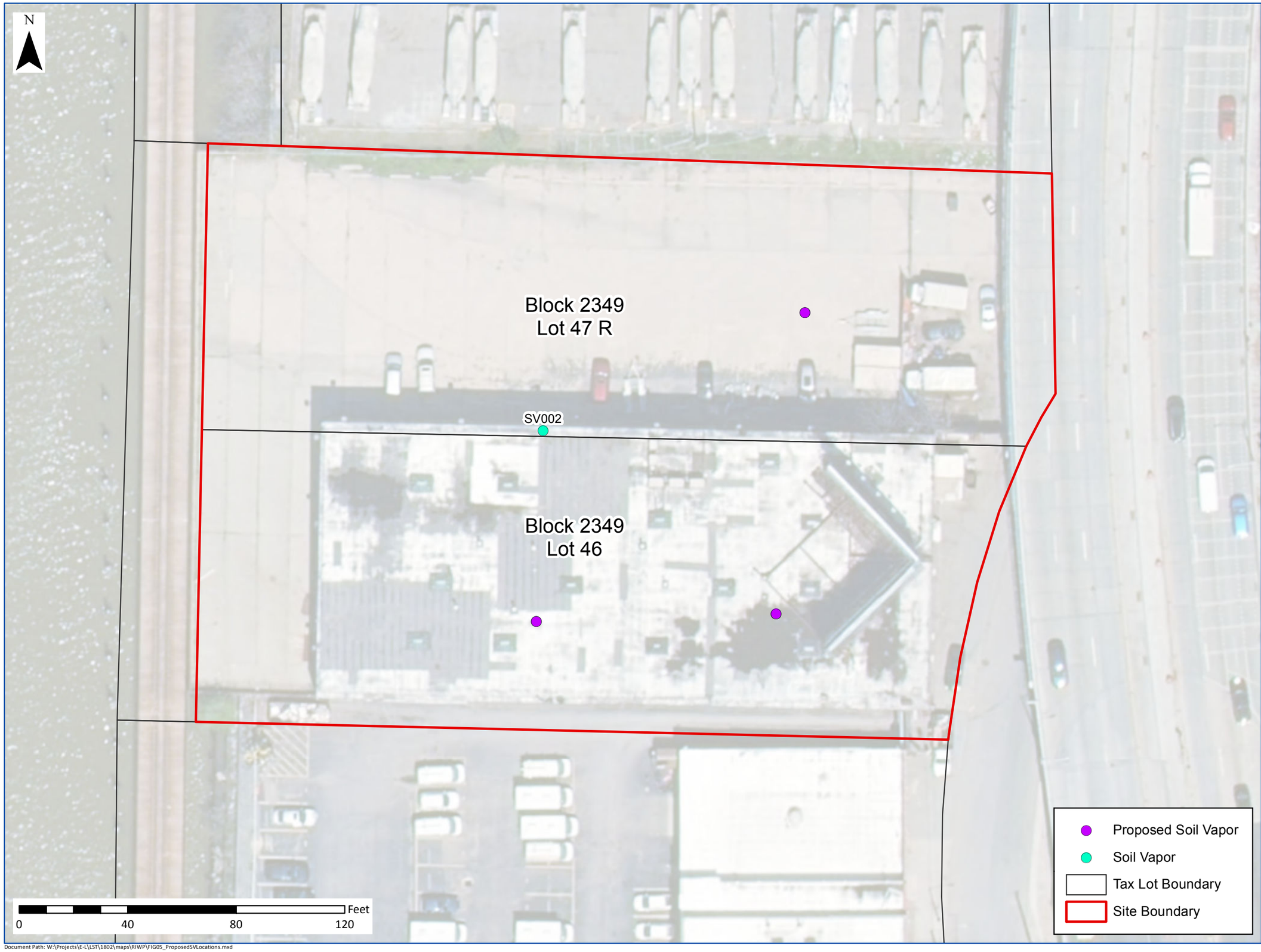
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Proposed Monitoring Well Locations

355 Exterior Street
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FIGURE NO:

4



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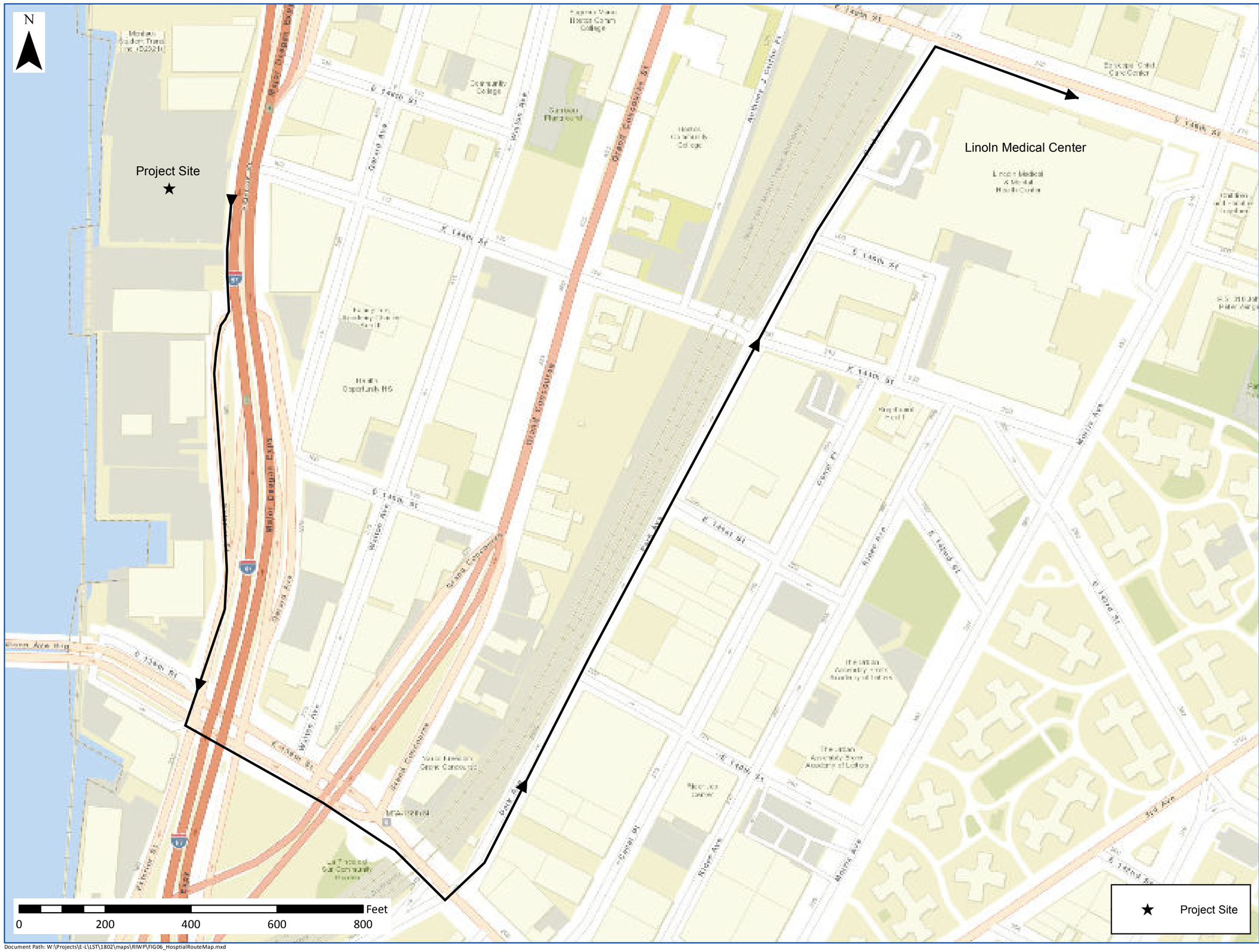
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Date:	4/28/2020	Drawn by:	TS
Scale:	AS SHOWN	Approved by:	DH

Proposed Soil Vapor Probe Locations

355 Exterior Street
Bronx, NY

FIGURE NO:

5



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HOSPITAL ROUTE

355 Exterior Street to
Lincoln Medical Center
234 E 149th St
The Bronx, NY

FIGURE NO:

6

TABLE

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Table 1
Project Schedule - Remedial Investigation

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Task																				
30 Day Public Comment Period																				
NYSDEC Approval of RIWP																				
Field Activities																				
Laboratory Analysis																				
Data Validation																				
Preparation of RI Report																				
Submission of Draft RI Report to NYSDEC																				
NYSDEC Interal Review of RI Report & 30 Day Public Comment Period																				

APPENDIX A
PHASE II ESA REPORT

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355 EXTERIOR STREET
BRONX, NEW YORK
BLOCK 2349, LOTS 46 AND 47

PHASE II
ENVIRONMENTAL SITE ASSESSMENT
(ASTM 1903-11)

PREPARED FOR:

355 Exterior Street Associates LLC
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460 Park Avenue, 13th Floor
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PWGC Project Number: LST1802

SEPTEMBER 2019

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PHASE II ENVIRONMENTAL SITE ASSESSMENT
355 EXTERIOR STREET, BRONX, NEW YORK

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PHASE II ENVIRONMENTAL SITE ASSESSMENT
355 EXTERIOR STREET, BRONX, NEW YORK

FIGURES

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APPENDICES

APPENDIX A	Geophysical Survey Report
APPENDIX B	Soil Boring Logs
APPENDIX C	Laboratory Analytical Reports

ACRONYM	DEFINITION
ASP	Analytical Services Protocol
ASTM	American Society for Testing and Materials
AWQS	Ambient Water Quality Standards
c/o	care of
Coastal	Coastal Environmental Solutions, Inc.
Delta	Delta Geophysics Inc.
DER	Department of Environmental Remediation
DER-10	Technical Guidance for Site Investigation and Remediation
ELAP	Environmental Laboratory Approval Program
EM	Electromagnetic
ESA	Environmental Site Assessment
GPR	Ground Penetrating Radar
MDL	Method Detection Limit
MG/KG	Milligrams Per Kilogram
NGVD	National Geodetic Vertical Datum
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCB	Polychlorinated Biphenyl
PID	Photo-ionization Detector
PPM	Parts Per Million
PVC	Polyvinyl Chloride
PWGC	P.W. Grosser Consulting, Inc.
QA/QC	Quality Assurance / Quality Control
REC	Recognized Environmental Condition
RRU	Restricted Residential Use
SCO	Soil Cleanup Objective
SVOC	Semi-volatile Organic Compound
TAL	Target Analyte List
TCL	Target Compound List
TOGS	Technical Operation and Guidance Series
USCS	Unified Soil Classification System
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground Storage Tank
UU	Unrestricted Use
VEC	Vapor Encroachment Condition
VOC	Volatile Organic Compound

1.0 INTRODUCTION

355 Exterior Street Associates LLC, care of (c/o) The Lightstone Group (Client) retained P.W. Grosser Consulting, Inc. (PWGC) to prepare a Phase II Environmental Site Assessment (ESA) for the property located at 355 Exterior Street, Bronx, New York. The purpose of the Phase II ESA was to further evaluate recognized environmental conditions (RECs) identified in the Phase I ESA to obtain sound, scientifically valid data concerning actual property conditions.

Work was conducted in accordance with the American Society for Testing and Materials (ASTM) Standard E 1903-11 (Standard Practices for Environmental Site Assessment: Phase II Environmental Site Assessment Process) and in substantial conformance with the New York State Department of Environmental Conservation's (NYSDEC's) Division of Environmental Remediation's (DER's) Technical Guidance for Site Investigation and Remediation, May 2010 (DER-10).

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2.0 BACKGROUND

2.1 Site Description and Features

The subject property consists of two parcels located at 355 Exterior Street in the Mott Haven Neighborhood of the Bronx, New York. The property is identified in the New York City Tax Map as Block 2349, Lots 46 and 47. A site location map is included as **Figure 1**.

The subject property measures approximately 1.4 acres and is occupied by one commercial-use building and an asphalt parking area.

2.2 Physical Setting

The topography of the site and surrounding area was reviewed from the United States Geological Survey (USGS) 7.5-minute series topographic map for the Manhattan, New York quadrangle. The property elevation is approximately five feet above the National Geodetic Vertical Datum (NGVD).

2.3 Site History and Land Use

Historical usage of the subject property indicates that it was first developed in the early 1900s and was used as a freight train support facility and lumber supply building until circa 1966. Infrastructure supporting the freight train operation was removed from the site at which time the use of the property transitioned to commercial use and parking. Between 1966 to current day, the site appears to be utilized for mixed commercial use including lumber distribution, a roofing company and Borax Paper Products.

2.4 Adjacent Property Land Use

Review of historical information reviewed for the properties surrounding the subject property indicate that the area has been developed since at least 1922. Development was primarily commercial to the present-day extent.

2.5 Summary of Previous Assessments

2.5.1 Phase I Environmental Site Assessment Report (December 2018)

A Phase I ESA was prepared for 355 Exterior Street in December of 2018 by PWGC. The Phase I ESA identified the following RECs associated with the property.

- The site has been assigned an E-Designation for Air, Hazardous Materials, and Noise by the New York City Department of Planning.

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- The site has been historically utilized for commercial and industrial purposes that likely included the storage and use of hazardous substances and/or petroleum products at the site.
- Potential vapor encroachment related to historical use of the site.

The Phase I ESA recommended that a Phase II ESA be performed at the subject property.

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3.0 WORK PERFORMED AND RATIONALE

3.1 Scope of Assessment

The Phase II ESA included the following tasks:

- Site Inspection
- Geophysical Survey
- Soil Quality Investigation
- Groundwater Quality Investigation
- Soil Vapor Intrusion Investigation

3.2 Site Inspection

During the Phase I ESA in December 2018, PWGC was unable to access the site. The limited access to the site was identified as a data gap. During the Phase II ESA, PWGC was granted access to the site. Mr. Michael Gaul of PWGC performed a visual inspection on May 14, 2019. The inspection consisted of the interior portions of the building, the roof, and the asphalt parking lot. According to the current building manager, the building is heated via natural gas. No chemical storage or waste generation and storage beyond municipal waste was identified. No potentially polychlorinated biphenyl (PCB) containing equipment was identified. Two interior drain pits were identified with no determinate discharge point. No determination could be made in the field regarding the nature of these pits or what purpose they may have served. No staining or other evidence of spills was noted in the vicinity of the drain pits. The site inspection did not identify any deficiencies within the proposed Phase II ESA scope of work therefore no additional sample locations were required.

3.3 Geophysical Survey

On May 9, 2019, PWGC and Delta Geophysics Incorporated (Delta) of Catasauqua, Pennsylvania mobilized to the subject property to perform a geophysical survey. The purpose of the geophysical survey was to determine the absence/presence of subsurface anomalies at the subject property. The area surveyed included the parking lot adjacent to the on-site building. Access to the interior of the building was not available at the time of this survey. Most of the parking lot was accessible but several rental trucks were present and were unable to be moved during the survey. Descriptions of the geophysical methods are described below.

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3.3.1 Electromagnetic Survey

Delta utilized a radio detection RD7000 precision utility locator electromagnetic (EM) instrument. The RD7000 uses the principle of EM induction to measure the variability of electrical conductivity of subsurface materials and the presence of buried metal objects. Significant contrasts in the electrical properties between non-indigenous materials and surrounding soil enable accurate delineation of buried waste materials, fill, and geologic features. The large EM response to metal makes this technique particularly well suited to identifying buried metal objects such as underground storage tanks (USTs), metallic wastes, buried drums, pipelines, reinforced building foundations, and other metal components of buried structures. It is, however, equally sensitive to metal objects on the ground surface.

3.3.2 Ground Penetrating Radar Survey

Following the electromagnetic survey, Delta utilized a Geophysical Survey Systems, Inc. SIR-3000 cart mounted Ground Penetrating Radar (GPR) unit with a 400 millihertz antenna to further investigate the metallic anomalies. The GPR utilizes high frequency radio signals that are transmitted into the ground and returned to the received unit which displays the signals on a digital display. The computer unit within the GPR then measures the time taken for a pulse to travel to and from the target which indicates the approximate depth and location. The GPR is commonly utilized to depict potential USTs, locations of former USTs, subsurface piping and additional non-metallic subsurface anomalies.

3.3.3 Survey Findings

The survey did not identify the presence of subsurface anomalies in the areas accessible during the initial investigation. It should be noted that due to reinforced concrete in the parking lot, the effectiveness of the survey was limited, and several proposed boring locations were relocated based on this information. Subsurface anomalies may exist beyond the capability of the equipment utilized due to interference or other factors.

The complete Geophysical Survey, including further detail regarding the methodology and findings, is included in **Appendix A**.

3.4 Soil Quality Investigation

To characterize soil quality, soil borings were installed throughout the subject property in three separate events. PWGC installed SB007 through SB010 including all SB009 step out samples on May 9 and 10, 2019. PWGC returned to the site to collect SB016 and SB017 and additional deeper intervals at SB008 on June 6,

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2019. Once PWGC gained access to the interior of the building, borings SB018 through SB023 were collected on July 5, 2019. Boring locations were focused in areas of potential concern as identified by the Phase I ESA and in areas where visual impact was observed during this investigation. A total of 16 soil borings were installed during the investigation. Soil boring locations are illustrated on **Figure 2**.

3.4.1 Soil Boring Protocol

Coastal Environmental Solutions, Inc (Coastal) of Medford, New York provided environmental drilling services during the investigation. A Geoprobe was utilized to install the environmental soil borings. Soils were collected continuously from ground surface to an approximate depth of 15 feet below surface grade or to depth of refusal.

The soil cores were placed on a decontaminated table in the order they came out of the ground. The acetate liners were cut open and the soil core was screened for the presence of volatile organic vapors, which are commonly associated with petroleum products and industrial solvents, utilizing a photo-ionization detector (PID). Each soil core was classified by a hydrogeologist using the Unified Soil Classification System (USCS). A soil boring log was developed for each location (**Appendix B**) and includes the characterization and screening data.

Generally, soil consisted of brown sand and gravel with fill material (brick, asphalt, and wood) from grade to approximately ten feet below grade. Below the fill layer was typically grey silty sand or grey clay which extended within groundwater which was typically encountered around eight to ten feet below grade. Discolored soil with a slight petroleum odor and low level PID detections were observed in four of the sixteen soil borings (SB009, SB009_E, SB009_W and SB016). The presence of potential petroleum contamination was observed at the soil/water table interface (approximately eight to ten feet below surface grade) in each of these four soil borings. Potential contamination was not observed in the shallower intervals above the soil/water table interface. SB009 contained the highest PID readings therefore additional "step out" samples were conducted to determine a potential source location and approximate extent of petroleum impact. Soil borings were installed approximately 25 feet from SB009 to the east (SB009_E), north (SB009_N) and west (SB009_W). Due to the presence of petroleum impact within SB009_W, an additional step out sample approximately 25 feet to the west was installed (SB009_W2). No additional delineation could be completed to the south of SB009 due to the presence of the on-site building and the lack of access to the interior of the building during the initial field work. In addition to original boring location SB009, visual petroleum impact and elevated PID readings were observed within SB009_E

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and SB009_W. Due to the visual and olfactory presence of petroleum contamination, the NYSDEC was notified and spill # 19-01885 was assigned to the site.

PWGC returned to the site on June 6, 2019 to collect two additional exterior soil borings (SB016 and SB017) to supplement the existing data set. SB016 was as an additional sample to further delineate the petroleum impact observed in the SB0009_E step out sample collected. During this event, several box trucks were moved to allow access to this boring location. Additionally, deeper samples were collected from the 8'-10' and 10'-12' interval of SB008 which was originally sampled in May of 2019.

PWGC performed another supplemental subsurface investigation once access to the interior of the building was coordinated with the building owner. SB018 through SB023 were conducted from the subsurface within the on-site building following the same protocols as the previous samples collected. No soil or groundwater sample could be collected within 25 feet south of SB009 due to access restrictions within the building (limited height along northern portion of building interior).

3.4.2 Sample Collection Protocol

To characterize subsurface soil conditions, a total of 35 soil samples were collected from 16 soil borings and depth intervals spread out throughout the site during the initial investigation and supplemental interior subsurface investigation.

Samples collected for volatile organic analysis were collected directly from the acetate liners utilizing terra-core sampling devices. The remaining sample volumes were transferred to a stainless-steel bowl and homogenized. Once homogenized, samples were transferred to laboratory supplied glassware and packed in a cooler with ice and shipped under proper chain-of-custody procedures to a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory, for analysis individually following NYSDEC Analytical Services Protocol (ASP)-Category B Deliverables.

Soil samples were analyzed for the following:

- Target Compound List (TCL) Volatile Organic Compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260;
    - SB009 (2-4'), SB009 (6-8'), SB009_N (8-10'), SB009_W (8-10'), SB009_E (8-10') and SB016 (6-8').
- TCL Semi-Volatile Organic Compounds (SVOCs) by USEPA Method 8270;
- Organochlorine Pesticides & PCBs by USEPA Methods 8081/8082;
    - SB016 (6-8'), SB017 (6-8'), SB018 (0-3'), SB020 (0-3') and SB022 (0-3').

- Target Analyte List (TAL) Metals by USEPA Methods 6010/7471

Samples which were collected and analyzed for VOCs were determined within the field to have the highest potential for petroleum impact (visual and/or PID readings). SVOCs and metals were analyzed within every soil sample collected to address the RECs identified within the Phase I ESA. Organochlorine pesticides and PCBs were collected and analyzed in several samples through the site to address the RECs identified in the Phase I ESA. Several deeper interval samples were submitted to the lab on hold and analyzed if specific compounds exceeded their respective Restricted-Residential Use Soil Cleanup Objectives (RRUSCOs). These samples were submitted to determine the approximate depth of exceedances including specific metals or SVOCs. Some of these were analyzed by the lab once the initial data was reviewed as summarized in **Table 1** and **Table 2**.

3.4.3 Soil Analytical Results

Soil analytical results were compared to the NYSDEC's Title 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 and Final Commissioner Policy, CP-51 SCOs for Unrestricted Use (UU) and RRU.

SVOCs and/or metals were detected above both UUSCOs and RRUSCOs in the majority of the soil samples analyzed. Impact exceeding RRUSCOs was predominantly limited to samples collected from within the top ten feet of the site. However, there was a significantly elevated concentration of arsenic (22.1 milligrams per kilogram (mg/kg)) and mercury (5.38 mg/kg) in SB007 at a depth of 12 to 14 feet bgs.

VOCs were detected above RRUSCOs in one of the six soil samples analyzed. SB009_E (8-10') contained 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene above their respective RRUSCOs. These exceedances within this sample confirm the visual observations which indicated petroleum impact. SB009 (8-10') did not contain VOC exceedances but there were several VOC compounds detected above their method detection limit (MDL) along with observed visual impact and elevated PID readings (80.1 parts per million (ppm)). The SB009 step out samples to the north and west did not show petroleum impact therefore it is likely that the source originates to the east of SB009. The VOCs detected are commonly found in fuel oils, gasoline, stoddard solvent, etc.

Pesticides and PCBs were not detected above RRUSCOs.

Analytical results are detailed in **Table 1** and **Table 2**, summarized on **Figure 2**, and complete laboratory analytical reports are included in **Appendix C**.

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3.5 Groundwater Quality Investigation

To characterize groundwater quality, groundwater samples were collected throughout the subject property. Groundwater sampling locations were selected based on field observations. A total of two groundwater samples were collected during the investigation. Groundwater sampling locations are illustrated on **Figure 3**.

3.5.1 Sampling Collection Protocol

Following the completion of the soil borings at SB008 and SB009, Coastal installed a prepacked 2" polyvinyl chloride (PVC) temporary well point in each borehole. MW003 was installed within the boring for SB008 and MW004 was installed within the boring for SB009. MW004 was installed at SB009 to potential document if petroleum impacts noted at the water table interface have resulted in groundwater impacts. Groundwater was encountered at approximately nine feet below surface grade. The screen was set from 5 to 15 feet below surface grade in each borehole. Disposable polyethylene tubing was inserted into the water bearing zone of the screen point sampler. The end of the tubing was connected to a peristaltic pump with dedicated silicone tubing. Four casing volumes of water were purged from the temporary sampling point prior to the collection of samples.

Samples were transferred to laboratory supplied glassware and packed in a cooler with ice and shipped under proper chain-of-custody procedures to a NYSDOH ELAP certified laboratory for analysis following NYSDEC ASP-Category B Deliverables. Groundwater samples were analyzed for the following compounds to address typical issues associated with industrial site operations as discovered in the Phase I ESA.

- TCL VOCs by USEPA Method 8260;
- TCL SVOCs by USEPA Method 8270;
- Organochlorine Pesticides & PCBs by USEPA Methods 8081/8082; and
- TAL Metals by USEPA Methods 6010/7471 (Total and Dissolved).

3.5.2 Groundwater Analytical Results

Groundwater sample results were compared to the NYSDEC Class GA Ambient Water Quality Standards (AWQS) as specified in the Technical Operation and Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards and Guidance Values.

VOCs were detected above AWQS in one of the two groundwater samples. The VOC impact was noted in MW004, which was installed in SBOO9 where visual impact was noted. The presence of VOCs in soils

collected from SB009_E, the visual identification of petroleum impact in SB009 and the groundwater sample collected from MW004 is likely related to a historic petroleum release which resulted in the NYSDEC spill number.

SVOCs were detected above AWQSs in both groundwater samples. The SVOCs detected in the groundwater samples were also observed at elevated concentrations in the soil samples with the exception of phenol. Phenol was detected in the groundwater at MW004 but was not detected in site soils. This could be a likely laboratory contaminant based on the presence within the groundwater but not within the soils.

Several metals were detected above AWQSs. In general, metals were reduced in the dissolved (lab filtered) samples. Dissolved metals in excess of AWQSs were limited to magnesium, selenium, and sodium. The magnesium and sodium are high within the groundwater samples due to the known salinity of the adjacent east river which intrudes onto the site.

Pesticides and PCBs were not detected above laboratory method detection limits.

Analytical results are detailed in **Tables 3 through 6**, summarized on **Figure 3**, and the complete laboratory analytical report is included in **Appendix C**.

3.6 Soil Vapor Intrusion Investigation

To evaluate potential vapor intrusion at the subject property, a soil vapor intrusion investigation was performed. No pre-sampling inspection was required as the soil vapor sample collected was located outside of the on-site building approximately 4 feet below the asphalt. The sample was collected at this depth to address potential concerns below the existing slab.

3.6.1 Sampling Protocol

Sampling was conducted in accordance with the NYSDOH "Guidance for Evaluating Soil Vapor Intrusion in New York State," (NYSDOH Guidance) October 2006. The sample was collected into 2.7-liter Summa® vacuum canisters fitted with a two-hour flow controller. The sampler was batch certified clean by the laboratory. Proper quality assurance (QA) / quality control (QC) protocol was followed during the collection of the soil gas sample to ensure that cross-contamination in the field did not occur. The sample was submitted to the lab for analysis of VOCs by USEPA Method TO-15.

The temporary soil vapor probe was installed approximately four feet below the asphalt along the exterior of the property in accordance with procedures specified in the NYSDOH Guidance. Prior to sampling, the integrity of the sampling port seal was tested using tracer gas analysis. The environment surrounding the

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seal was enriched with the tracer gas, helium, as readings were collected through the sampling probe with a portable helium detector. Tracer gas readings collected from the soil vapor probe were acceptable indicating the seals were intact and the sampling probe was acceptable for sample collection.

After the initial tracer gas test was performed, one to three volumes of the sample tubing were purged prior to collecting the sample. Flow rates for both purging and collecting did not exceed 0.2 liters per minute. No indoor or ambient samples were collected as part of this sampling event.

3.6.2 Analytical Results

Analytical results for the sub-slab vapor air sample is shown on **Table 7** and summarized on **Figure 4**. The laboratory data report is included as **Appendix C**. Several VOCs were detected above laboratory method detection limits. Tetrachloroethene, 2-butanone (methyl ethyl ketone), carbon disulfide, cyclohexane, benzene, propylene, toluene among others were detected above their laboratory method detection limits. Several of these compounds were also detected above their MDL within MW004. Petroleum related VOCs may be present in the soil vapor sample due to presence of petroleum along the water table interface.

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4.0 CONCLUSIONS AND RECOMMENDATIONS

PWGC has performed a Phase II ESA in conformance with the scope and limitations of ASTM Practice E1903-11 for the subject property. The Phase II ESA consisted of the following tasks:

- Site Inspection
- Geophysical Survey
- Soil Quality Investigation
- Groundwater Quality Investigation
- Soil Vapor Intrusion Investigation

4.1 Conclusions

Based on the results of the Phase II ESA, PWGC offers the following conclusions:

- The site inspection identified two interior pits with no distinguishable discharge point. An interior geophysical survey should be conducted to determine the discharge of these pits as well as any additional subsurface anomalies.
- Subsurface anomalies were not identified as part of this investigation. However, reinforced concrete limited the effectiveness of the geophysical survey and anomalies beyond the limitations of the equipment may exist.
- SVOCs and metals are present in the fill material at the site. Metals extend deeper than the fill material in at least one sample. Visual observations and the detection of VOCs confirm the presence of petroleum contamination in the subsurface soils located near SB009. Spill # 19-01885 was assigned to the site. An on-site source was not identified as part of this investigation.
- With the exception of VOCs and the one SVOC, groundwater conditions appear to be at typical levels for an industrial area. The detected VOCs and SVOC appear to be related to petroleum contamination identified at the soil/water table interface. An on-site source was not identified as part of this investigation.
- The soil vapor sample collected identified contaminants of concern including tetrachloroethene and several petroleum related compounds. VOCs in soil vapor may be attributed to the VOCs detected on-site and further investigation to determine a source is warranted.

4.2 Recommendations

Based on the conclusions detailed above, PWGC offers the following recommendations for the subject property:

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- A geophysical survey within the inside of the building should be conducted to determine the discharge point of the two identified pits.
- A supplemental investigation should be performed to delineate the extent of petroleum contamination and identify the source of contamination.
- Future construction activities at the site should take into consideration the quality of the fill material and native soils at the site.

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5.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 code of federal regulations (CFR) 312. I have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.



Derek Ersbak, PG
Senior Project Manager

Report Completion Date: 2019.09.27

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6.0 REFERENCES

NYSDEC, Division of Environmental Restoration, 6 NYCRR Part 375 Subpart 6, Remedial Program Soil Cleanup Objectives

NYSDEC, Division of Environmental Remediation, May 2010, Draft DER-10, Technical Guidance for Site Investigation and Remediation.

NYSDEC, Division of Water, June 1998, Addendum April 2000, Technical and Operational Guidance Series 1:1:1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations

NYSDOH October 2006 Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York.

NYSDOH May 2017: Updates to Soil Vapor / Indoor Air Decision Matrices.

Standard practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process, ASTM Standard E 1903-11.

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7.0 LIMITATIONS

The conclusions presented in this report are professional opinions based on the data described in this report. These opinions have been arrived at in accordance with currently accepted engineering and hydrogeologic standards and practices applicable to this location, and are subject to the following inherent limitations:

1. The data presented in this report are from visual inspections and examination of records prepared by others. The passage of time, manifestation of latent conditions, or occurrence of future events may require further exploration of the site, analysis of data, and re-evaluation of the findings, observations, and conclusions presented in this report.
2. The data reported and the findings, observations, and conclusions expressed are limited by the scope of work. The scope of work was defined by the request of the client.
3. No warranty or guarantee, whether expressed or implied, is made with respect to the data reported, findings, observations, or conclusions. These are based solely upon site conditions in existence at the time of the investigation, and other information obtained and reviewed by PWGC.
4. The conclusions presented in this report are professional opinions based on data described in this report. They are intended only for the purpose, site location, and project indicated. This report is not a definitive study of contamination at the site and should not be interpreted as such.
5. This report is based, in part, on information supplied to PWGC by third-party sources. While efforts have been made to substantiate this third-party information, PWGC cannot attest to the completeness or accuracy of information provided by others.

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FIGURES



SITE LOCATION

355 Exterior Street
Bronx, NY

0 ¼ ½ ¾ 1 Miles

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Project:	LST1802
Date:	9/26/2019
Designed by:	DH
Drawn by:	TS
Approved by:	DH
Figure No:	1

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Analyte:	SB008 0-2' 5/10/2019	SB008 4-6' 5/10/2019	SB008 4-6' 5/10/2019	SB008 6-8' 5/10/2019	SB008 6-8' 5/10/2019	SB008 8-10' 6/6/2019	SB008 10-12' 6/6/2019
Method: 8270 D - SVOCs (GC/MS) - (mg/kg)							
Benzo(a)anthracene	0.188	0.742	1.08	0.964	1.14	6.5	0.28
Benzo(a)pyrene	0.261	0.753	1.28	1.20	1.50	6.4	0.25
Benzo(b)fluoranthene	0.261	0.590	0.921	0.865	1.22	7.5	0.26
Benzo(k)fluoranthene	0.209	0.473	0.765	0.717	1.11	2.3	0.075 J
Chrysene	0.200	0.654	0.948	0.830	1.27	5.5	0.24
Dibenzo(a,h)anthracene	0.0604 J	0.141	0.214	0.177	0.269	0.75	0.031 J
Indeno(1,2,3-cd)Pyrene	0.225	0.495	0.779	0.908	1.18	4.2	0.13 J
Method: 6010C - Metals (ICP) - (mg/kg)							
Arsenic, Total	3.53	29.7	5.95	4.78	3.94	-	-
Barium, Total	62.1	154	41.5	56.5	39.2	-	-
Cadmium, Total	0.409 U	1.30	1.42	0.409 U	0.392 U	-	-
Chromium, Total	7.93	14.3	8.29	17.3	12.7	-	-
Copper, Total	37.5	336	381	19.8	18.8	-	-
Lead, Total	50.9	455	135	20.1	24.8	-	-
Manganese, Total	160	235	232	261	254	-	-
Nickel, Total	13.1	13.1	10.3	16.6	15.3	-	-
Selenium, Total	3.40 U	3.31 U	3.2 U	3.41 U	3.27 U	-	-
Zinc, Total	57.5	531	645	50.8	43.3	-	-
Method: 7471B - Mercury (CVAA) - (mg/kg)							
Mercury, Total	0.0673	0.746	0.613	0.244	0.142	-	-

Analyte:	SB009_N 8-10' 5/10/2019
Method 8260C - VOCs by GC/MS - (mg/kg)	
1,2,4-Trimethylbenzene	0.0026 U
1,3,5-Trimethylbenzene	0.0026 U
Acetone	0.029
Ethylbenzene	0.0026 U
n-Butylbenzene	0.0026 U
n-Propylbenzene	0.0026 U
sec-Butylbenzene	0.0026 U

Analyte:	SB009_W 8-10' 5/10/2019
Method 8260C - VOCs by GC/MS - (mg/kg)	
1,2,4-Trimethylbenzene	0.0029 U
1,3,5-Trimethylbenzene	0.0029 U
Acetone	0.0062 J
Ethylbenzene	0.0029 U
n-Butylbenzene	0.0029 U
n-Propylbenzene	0.0029 U
sec-Butylbenzene	0.0029 U

Analyte:	SB007 0-2' 5/10/2019	SB007 8-10' 5/10/2019	SB007 12-14' 5/10/2019
Method: 8270 D - SVOCs (GC/MS) - (mg/kg)			
Benzo(a)anthracene	0.214	0.259	0.327
Benzo(a)pyrene	0.284	0.232	0.491
Benzo(b)fluoranthene	0.252	0.158	0.248
Benzo(k)fluoranthene	0.210	0.154	0.263
Chrysene	0.219	0.228	0.319
Dibenzo(a,h)anthracene	0.0609 J	0.0562 U	0.0720 U
Indeno(1,2,3-cd)Pyrene	0.216	0.142	0.270
Method: 6010C - Metals (ICP) - (mg/kg)			
Arsenic, Total	5.67	8.26	22.1
Barium, Total	147	376	133
Cadmium, Total	0.947	0.602	0.827
Chromium, Total	15.4	11.7	59.6
Copper, Total	117	170	158
Lead, Total	101	431	365
Manganese, Total	416	329	463
Nickel, Total	18.8	22.1	39.5
Selenium, Total	2.95 U	3.39 U	4.32 U
Zinc, Total	268	399	280
Method: 7471B - Mercury (CVAA) - (mg/kg)			
Mercury, Total	0.462	1.40	5.38

Analyte:	CAS Number	NYSDEC [1] Soil Cleanup Objectives Unrestricted Use	NYSDEC [2] Soil Cleanup Objectives Restricted-Residential Use
Method 8260C - VOCs by GC/MS - (mg/kg)			
1,2,4-Trimethylbenzene	95-63-6	3.6	52
1,3,5-Trimethylbenzene	108-67-8	8.4	52
Acetone	67-64-1	0.05	100[a]
Ethylbenzene	100-41-4	1	41
n-Butylbenzene	104-51-8	12	100[a]
n-Propylbenzene	103-65-1	3.9	100[a]
sec-Butylbenzene	135-98-8	11	100[a]
Method: 8270 D - SVOCs (GC/MS) - (mg/kg)			
Benzo(a)anthracene	56-55-3	1[c]	1[c]
Benzo(a)pyrene	50-32-8	1[c]	1[c]
Benzo(b)fluoranthene	205-99-2	1[c]	1[c]
Benzo(k)fluoranthene	207-08-9	0.8[c]	3.9
Chrysene	218-01-9	1[c]	3.9
Dibenzo(a,h)anthracene	53-70-3	0.33[b]	0.33[a]
Indeno(1,2,3-cd)Pyrene	193-39-5	0.5[c]	0.5[c]
Method: 6010C - Metals (ICP) - (mg/kg)			
Arsenic, Total	7440-38-2	13[c]	16[c]
Barium, Total	7440-39-3	350[a]	400
Cadmium, Total	7440-43-9	2.5[c]	4.3
Chromium, Total	7440-47-3	30[a]	180[b]
Copper, Total	7440-50-8	50	270
Lead, Total	7439-92-1	63[c]	400
Manganese, Total	7439-96-5	1,600[a]	2,000[a]
Nickel, Total	7440-02-0	30	310
Selenium, Total	7782-49-2	3.9[c]	180
Zinc, Total	7440-66-6	109[a]	10,000[a]
Method: 7471B - Mercury (CVAA) - (mg/kg)			
Mercury, Total	7439-97-6	0.18[c]	0.81[a]
Method: 8081B - Organochlorine Pesticides (GC) - (mg/kg)			
4,4'-DDD	72-54-8	0.0033[a]	13
4,4'-DDT	50-29-3	0.0033[a]	7.9

Analyte:	SB009 2-4' 5/10/2019	SB009 6-8' 5/10/2019	SB009 8-10' 5/10/2019
Method 8260C - VOCs by GC/MS - (mg/kg)			
1,2,4-Trimethylbenzene	0.0031 U	0.0027 U	0.21 U
1,3,5-Trimethylbenzene	0.0031 U	0.0027 U	0.21 U
Acetone	0.0031 U	0.0059 U	0.43 U
Ethylbenzene	0.0031 U	0.0027 U	0.21 U
n-Butylbenzene	0.0031 U	0.0027 U	0.63
n-Propylbenzene	0.0031 U	0.0027 U	0.39 J
sec-Butylbenzene	0.0031 U	0.0027 U	1.5
Method: 8270 D - SVOCs (GC/MS) - (mg/kg)			
Benzo(a)anthracene	0.897	0.0474 U	0.241 U
Benzo(a)pyrene	1.04	0.0474 U	0.241 U
Benzo(b)fluoranthene	0.726	0.0474 U	0.241 U
Benzo(k)fluoranthene	0.712	0.0474 U	0.241 U
Chrysene	0.833	0.0474 U	0.241 U
Dibenzo(a,h)anthracene	0.176	0.0474 U	0.241 U
Indeno(1,2,3-cd)Pyrene	0.628	0.0474 U	0.241 U
Method: 6010C - Metals (ICP) - (mg/kg)			
Arsenic, Total	6.39	1.71 U	2.37
Barium, Total	278	93.3	166
Cadmium, Total	1.21	2.25	0.426
Chromium, Total	10.2	18.5	26.5
Copper, Total	244	18.9	44.2
Lead, Total	357	6.24	77.8
Manganese, Total	145	1,760	226
Nickel, Total	15.3	21.5	39.6
Selenium, Total	2.92 U	2.85 U	2.91 U
Zinc, Total	385	474	104
Method: 7471B - Mercury (CVAA) - (mg/kg)			
Mercury, Total	0.347	0.0342 U	0.243

Analyte:	SB010 0-2' 5/10/2019	SB010 2-4' 5/10/2019	SB010 6-8' 5/10/2019
Method: 8270 D - SVOCs (GC/MS) - (mg/kg)			
Benzo(a)anthracene	1.29 U	19.0	0.252
Benzo(a)pyrene	1.29 U	23.1	0.281
Benzo(b)fluoranthene	1.29 U	22.0	0.219
Benzo(k)fluoranthene	1.29 U	18.6	0.186
Chrysene	1.29 U	17.4	0.227
Dibenzo(a,h)anthracene	1.29 U	5.84	0.0546 U
Indeno(1,2,3-cd)Pyrene	1.29 U	16.9	0.217
Method: 6010C - Metals (ICP) - (mg/kg)			
Arsenic, Total	3.89	5.33	4.18
Barium, Total	32.9	55.0	53.1
Cadmium, Total	0.424	2.40	0.396 U
Chromium, Total	11.1	9.77	12.9
Copper, Total	21.2	1,430	35.0
Lead, Total	62.4	779	52.1
Manganese, Total	240	240	183
Nickel, Total	9.45	19.7	17.0
Selenium, Total	18.8	3.18 U	3.30 U
Zinc, Total	72.7	1,430	56.3
Method: 7471B - Mercury (CVAA) - (mg/kg)			
Mercury, Total	0.216	0.315	0.258

Analyte:	SB016 6-8' 6/6/2019	SB016 8-10' 6/6/2019	SB016 10-12' 6/6/2019
Method 8260C - VOCs by GC/MS - (mg/kg)			
1,2,4-Trimethylbenzene	0.00041 U	-	-
1,3,5-Trimethylbenzene	0.00024 U	-	-
Acetone	0.11	-	-
Ethylbenzene	0.00017 U	-	-
n-Butylbenzene	0.0002 U	-	-
n-Propylbenzene	0.00021 U	-	-
sec-Butylbenzene	0.00018 U	-	-
Method: 8270 D - SVOCs (GC/MS) - (mg/kg)			
Benzo(a)anthracene	0.12 J	-	-
Benzo(a)pyrene	0.12 J	-	-
Benzo(b)fluoranthene	0.12 J	-	-
Benzo(k)fluoranthene	0.052 J	-	-
Chrysene	0.12 J	-	-
Dibenzo(a,h)anthracene	0.026 U	-	-
Indeno(1,2,3-cd)Pyrene	0.066 J	-	-
Method: 6010C - Metals (ICP) - (mg/kg)			
Arsenic, Total	16.9	22.1	7.99
Barium, Total	44.2	-	-
Copper, Total	5,470	16,300	18.1
Lead, Total	3,160	988	13.9
Method: 7471B - Mercury (CVAA) - (mg/kg)			
Mercury, Total	0.428	-	-
Method: 8081B - Organochlorine Pesticides (GC) - (mg/kg)			
4,4'-DDD	0.00077 U	-	-
4,4'-DDT	0.00174 U	-	-

Analyte:	SB020 0-3' 7/5/2019
Method: 8270 D - SVOCs (GC/MS) - (mg/kg)	
Benzo(a)anthracene	1.2
Benzo(a)pyrene	1.1
Benzo(b)fluoranthene	1.4
Benzo(k)fluoranthene	0.45
Chrysene	1.2
Dibenzo(a,h)anthracene	0.16
Indeno(1,2,3-cd)Pyrene	0.66
Method: 6010C - Metals (ICP) - (mg/kg)	
Arsenic, Total	10.2
Barium, Total	217
Cadmium, Total	0.29 J
Chromium, Total	25.4
Copper, Total	133
Lead, Total	389
Manganese, Total	385
Nickel, Total	23.9
Selenium, Total	0.352 J
Zinc, Total	360
Method: 7471B - Mercury (CVAA) - (mg/kg)	
Mercury, Total	0.924
Method: 8081B - Organochlorine Pesticides (GC) - (mg/kg)	
4,4'-DDD	0.00478
4,4'-DDT	0.00142 U

Analyte:	SB017 6-8' 6/6/2019
Method: 8270 D - SVOCs (GC/MS) - (mg/kg)	
Benzo(a)anthracene	0.14
Benzo(a)pyrene	0.19
Benzo(b)fluoranthene	0.16
Benzo(k)fluoranthene	0.032 U
Chrysene	0.24
Dibenzo(a,h)anthracene	0.062 J
Indeno(1,2,3-cd)Pyrene	0.069 J
Method: 6010C - Metals (ICP) - (mg/kg)	
Arsenic, Total	3.68
Barium, Total	66.6
Copper, Total	21.8
Lead, Total	227
Method: 7471B - Mercury (CVAA) - (mg/kg)	
Mercury, Total	0.057 U

Analyte:	SB018 0-3' 7/5/2019	SB018 3-6' 7/5/2019
Method: 8270 D - SVOCs (GC/MS) - (mg/kg)		
Benzo(a)anthracene	0.38	0.48
Benzo(a)pyrene	0.36	0.37
Benzo(b)fluoranthene	0.45	0.52
Benzo(k)fluoranthene	0.17	0.19
Chrysene	0.35	0.5
Dibenzo(a,h)anthracene	0.057 J	0.061 J
Indeno(1,2,3-cd)Pyrene	0.25	0.25
Method: 6010C - Metals (ICP) - (mg/kg)		
Arsenic, Total	1.77	5.94
Barium, Total	86.7	83.4
Cadmium, Total	0.083 U	0.240 J
Chromium, Total	24.3	13.4
Copper, Total	28.9	44.6
Lead, Total	23.9	190
Manganese, Total	191	209
Nickel, Total	13.5	13.1
Selenium, Total	0.218 U	0.640 J
Zinc, Total	65	160
Method: 7471B - Mercury (CVAA) - (mg/kg)		
Mercury, Total	0.078	0.530
Method: 8081B - Organochlorine Pesticides (GC) - (mg/kg)		
4,4'-DDD	0.00195	-
4,4'-DDT	0.00305 J	-

Analyte:	SB019 0-3' 7/5/2019	SB019 3-6' 7/5/2019	SB019 6-9' 7/5/2019
Method: 8270 D - SVOCs (GC/MS) - (mg/kg)			
Benzo(a)anthracene	0.62	0.58	-
Benzo(a)pyrene	0.58	0.54	-
Benzo(b)fluoranthene	0.7	0.71	-
Benzo(k)fluoranthene	0.26	0.26	-
Chrysene	0.72	0.57	-
Dibenzo(a,h)anthracene	0.11	0.096 J	-
Indeno(1,2,3-cd)Pyrene	0.41	0.36	-
Method: 6010C - Metals (ICP) - (mg/kg)			
Arsenic, Total	4.92	21.3	1.01
Barium, Total	185	275	-
Cadmium, Total	0.837 J	3.40	-
Chromium, Total	24.9	49.1	-
Copper, Total	81.7	183	-
Lead, Total	182	1,060	71.8
Manganese, Total	234	236	-
Nickel, Total	22.4	43.1	-
Selenium, Total	0.296 J	1.77 J	-
Zinc, Total	375	1,250	-
Method: 7471B - Mercury (CVAA) - (mg/kg)			
Mercury, Total	0.826	0.784	-

Analyte:	SB022 0-3' 7/5/2019
Method: 8270 D - SVOCs (GC/MS) - (mg/kg)	
Benzo(a)anthracene	0.96
Benzo(a)pyrene	0.87
Benzo(b)fluoranthene	1.1
Benzo(k)fluoranthene	0.95
Chrysene	0.95
Dibenzo(a,h)anthracene	0.12
Indeno(1,2,3-cd)Pyrene	0.52
Method: 6010C - Metals (ICP) - (mg/kg)	
Arsenic, Total	7.99
Barium, Total	300
Cadmium, Total	0.881
Chromium, Total	13.3
Copper, Total	137
Lead, Total	240
Manganese, Total	279
Nickel, Total	13.7
Selenium, Total	0.218 U
Zinc, Total	285
Method: 7471B - Mercury (CVAA) - (mg/kg)	
Mercury, Total	0.341
Method: 8081B - Organochlorine Pesticides (GC) - (mg/kg)	
4,4'-DDD	0.00231
4,4'-DDT	0.0074 IP

Analyte:	SB021 0-3' 7/5/2019	SB021 3-6' 7/5/2019	SB021 6-9' 7/5/2019
Method: 8270 D - SVOCs (GC/MS) - (mg/kg)			
Benzo(a)anthracene	0.18	9	0.067 J
Benzo(a)pyrene	0.18	7.2	0.062 J
Benzo(b)fluoranthene	0.25	9.2	0.08 J
Benzo(k)fluoranthene	0.07 J	3.2	0.029 U
Chrysene	0.19	6.9	0.058 J
Dibenzo(a,h)anthracene	0.032 J	1.2	0.021 U
Indeno(1,2,3-cd)Pyrene	0.16	5.8	0.076 J
Method: 6010C - Metals (ICP) - (mg/kg)			
Arsenic, Total	2.84	7.84	-
Barium, Total	83.4	121	-
Cadmium, Total	0.091 J	0.524 J	-
Chromium, Total	24.3	16.0	-
Copper, Total	28.2	189	-
Lead, Total	32.7	145	-
Manganese, Total	747	278	-
Nickel, Total	15.5	26.1	-
Selenium, Total	0.214 U	0.364 J	-
Zinc, Total	83.2	207	-
Method: 7471B - Mercury (CVAA) - (mg/kg)			
Mercury, Total	0.045 U	0.143	-

Analyte:	SB009_E 8-10' 5/10/2019
Method 8260C - VOCs by GC/MS - (mg/kg)	
1,2,4-Trimethylbenzene	160
1,3,5-Trimethylbenzene	63
Acetone	1.4 U
Ethylbenzene	1.1 J
n-Butylbenzene	17
n-Propylbenzene	33
sec-Butylbenzene	24

Analyte:	SB023 0-3' 7/5/2019	SB023 3-6' 7/5/2019
Method: 8270 D - SVOCs (GC/MS) - (mg/kg)		
Benzo(a)anthracene	0.043 J	0.28
Benzo(a)pyrene	0.048 U	0.24
Benzo(b)fluoranthene	0.056 J	0.31
Benzo(k)fluoranthene	0.031 U	0.10 J
Chrysene	0.045 J	0.26
Dibenzo(a,h)anthracene	0.0220 U	0.04 J
Indeno(1,2,3-cd)Pyrene	0.028 J	0.17
Method: 6010C - Metals (ICP) - (mg/kg)		
Arsenic, Total	2.67	2.38
Barium, Total	54.0	113
Cadmium, Total	0.089 U	0.083 U
Chromium, Total	15.3	21.9
Copper, Total	17.4	28.0
Lead, Total	317	66.3
Manganese, Total	233	213
Nickel, Total	11.7	24.1
Selenium, Total	0.234 U	0.218 U
Zinc, Total	49.1	75.1
Method: 7471B - Mercury (CVAA) - (mg/kg)		
Mercury, Total	0.247	0.046 U

Block 2349
Lot 47

Block 2349
Lot 46

SB008
SB007
SB010
Step N
SB009*
SB016*
Step W-2
SV002
Step W*
Step E*
SB023
SB021
SB020
SB018
SB019
SB022
SB017

Notes:
(1) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use of Soil Cleanup Objective Table 375-6.8a 12/06
b - For constituents where the calculated SCO was lower than the CRQL, the CRQL is used as the Track 1 SCO value.
c - For constituents where the calculated SCO was lower than the rural soil background concentration, the rural soil background concentration is used as the Track 1 SCO value.
(2) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restriced Use of Soil Cleanup Objective Table 375-6.8b 12/06
a - The SCOs for industrial use and protection of groundwater were capped at a maximum value of 1000 ppm.
d - The SCOs for metals were capped at a maximum value of 10,000 ppm.
h - The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.
j - This SCO is the lower of the values for mercury (elemental) or mercury (inorganic salts).
B - Compound was found in the blank and sample.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U - Indicates the analyte was analyzed for but not detected.
Highlighted text denotes concentrations exceeding the NYSDEC Unrestricted Use SCO
Highlighted text denotes concentrations exceeding the NYSDEC Restricted-Residential Use SCO

0 40 80 120 Feet

Soil Boring
Step Out
Building Footprint
Site Boundary
Tax Lot Boundary

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REVISION	DATE	INITIAL	COMMENTS

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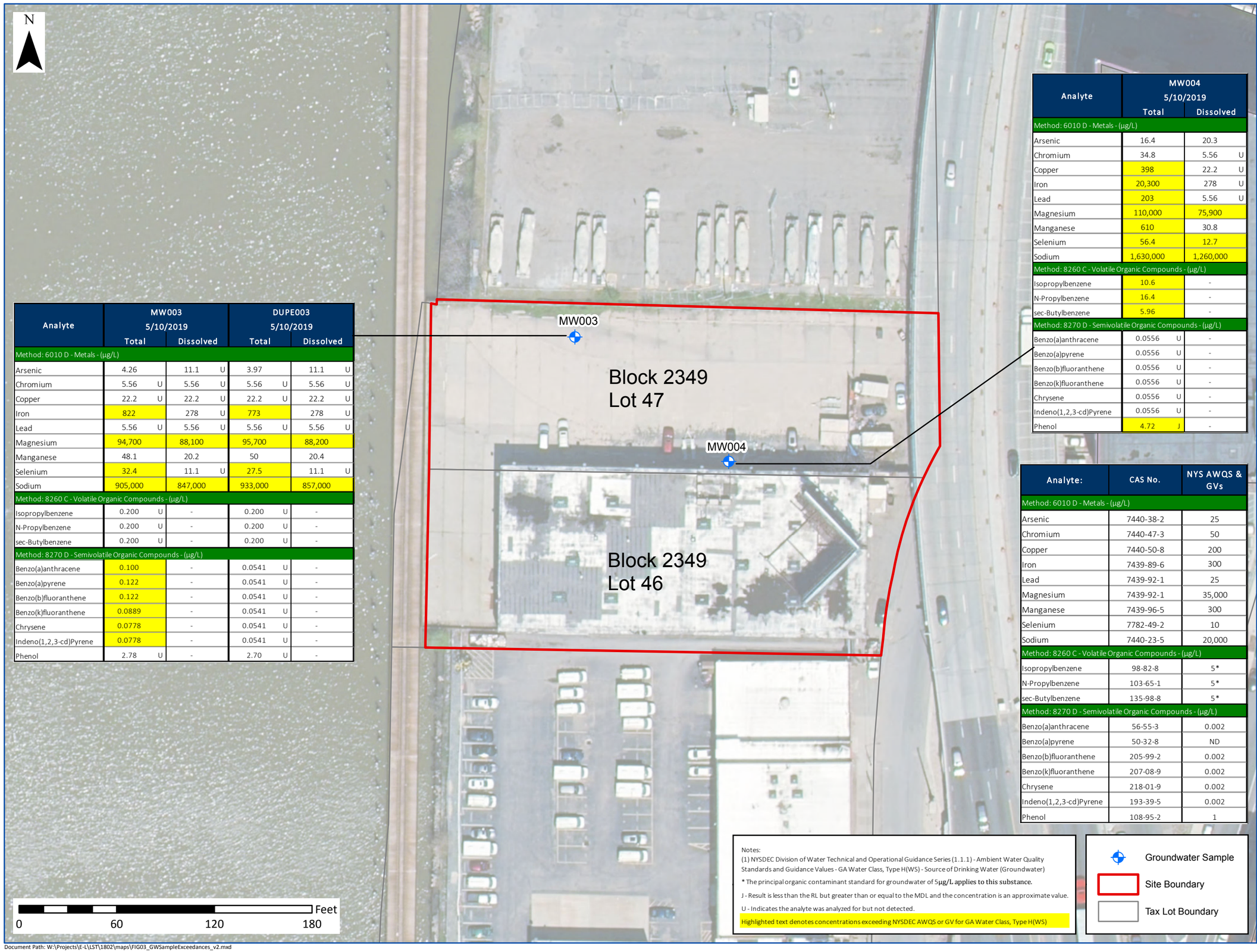
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Date:	9/26/2019	Drawn by:	TS
Scale:	AS SHOWN	Approved by:	DE

Site Plan - Soil Analytical Summary

355 Exterior Street
Bronx, NY

FIGURE NO:

2



Analyte	MW003 5/10/2019 Total		MW003 5/10/2019 Dissolved		DUPE003 5/10/2019 Total		DUPE003 5/10/2019 Dissolved	
Method: 6010 D - Metals - (µg/L)								
Arsenic	4.26		11.1	U	3.97		11.1	U
Chromium	5.56	U	5.56	U	5.56	U	5.56	U
Copper	22.2	U	22.2	U	22.2	U	22.2	U
Iron	822		278	U	773		278	U
Lead	5.56	U	5.56	U	5.56	U	5.56	U
Magnesium	94,700		88,100		95,700		88,200	
Manganese	48.1		20.2		50		20.4	
Selenium	32.4		11.1	U	27.5		11.1	U
Sodium	905,000		847,000		933,000		857,000	
Method: 8260 C - Volatile Organic Compounds - (µg/L)								
Isopropylbenzene	0.200	U	-		0.200	U	-	
N-Propylbenzene	0.200	U	-		0.200	U	-	
sec-Butylbenzene	0.200	U	-		0.200	U	-	
Method: 8270 D - Semivolatile Organic Compounds - (µg/L)								
Benzo(a)anthracene	0.100		-		0.0541	U	-	
Benzo(a)pyrene	0.122		-		0.0541	U	-	
Benzo(b)fluoranthene	0.122		-		0.0541	U	-	
Benzo(k)fluoranthene	0.0889		-		0.0541	U	-	
Chrysene	0.0778		-		0.0541	U	-	
Indeno(1,2,3-cd)Pyrene	0.0778		-		0.0541	U	-	
Phenol	2.78	U	-		2.70	U	-	

Analyte	MW004 5/10/2019 Total		MW004 5/10/2019 Dissolved	
Method: 6010 D - Metals - (µg/L)				
Arsenic	16.4		20.3	
Chromium	34.8		5.56	U
Copper	398		22.2	U
Iron	20,300		278	U
Lead	203		5.56	U
Magnesium	110,000		75,900	
Manganese	610		30.8	
Selenium	56.4		12.7	
Sodium	1,630,000		1,260,000	
Method: 8260 C - Volatile Organic Compounds - (µg/L)				
Isopropylbenzene	10.6		-	
N-Propylbenzene	16.4		-	
sec-Butylbenzene	5.96		-	
Method: 8270 D - Semivolatile Organic Compounds - (µg/L)				
Benzo(a)anthracene	0.0556	U	-	
Benzo(a)pyrene	0.0556	U	-	
Benzo(b)fluoranthene	0.0556	U	-	
Benzo(k)fluoranthene	0.0556	U	-	
Chrysene	0.0556	U	-	
Indeno(1,2,3-cd)Pyrene	0.0556	U	-	
Phenol	4.72	J	-	

Analyte:	CAS No.	NYS AWQS & GVs
Method: 6010 D - Metals - (µg/L)		
Arsenic	7440-38-2	25
Chromium	7440-47-3	50
Copper	7440-50-8	200
Iron	7439-89-6	300
Lead	7439-92-1	25
Magnesium	7439-92-1	35,000
Manganese	7439-96-5	300
Selenium	7782-49-2	10
Sodium	7440-23-5	20,000
Method: 8260 C - Volatile Organic Compounds - (µg/L)		
Isopropylbenzene	98-82-8	5*
N-Propylbenzene	103-65-1	5*
sec-Butylbenzene	135-98-8	5*
Method: 8270 D - Semivolatile Organic Compounds - (µg/L)		
Benzo(a)anthracene	56-55-3	0.002
Benzo(a)pyrene	50-32-8	ND
Benzo(b)fluoranthene	205-99-2	0.002
Benzo(k)fluoranthene	207-08-9	0.002
Chrysene	218-01-9	0.002
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002
Phenol	108-95-2	1

Notes:
(1) NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1) - Ambient Water Quality Standards and Guidance Values - GA Water Class, Type H(WS) - Source of Drinking Water (Groundwater)

* The principal organic contaminant standard for groundwater of 5µg/L applies to this substance.

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U - Indicates the analyte was analyzed for but not detected.

Highlighted text denotes concentrations exceeding NYSDEC AWQS or GV for GA Water Class, Type H(WS)

Groundwater Sample
Site Boundary
Tax Lot Boundary

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Date:	9/16/2019	Drawn by:	TS
Scale:	AS SHOWN	Approved by:	DH

Site Plan - Groundwater Analytical Summary

355 Exterior Street
Bronx, NY

FIGURE NO:

3

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Analyte:	SV002 5/10/2019
Volatile Organic Compounds by TO-15 ug/m3	
1,2-Dichlorotetrafluoroethane	22
2-Butanone	120
2-Hexanone	16
Acetone	67
Benzene	5.3
Carbon disulfide	4.1
Cyclohexane	1.5
Dichlorodifluoromethane	2.6
Isopropyl Alcohol	4.5
n-Heptane	1.5
n-Hexane	1.8
p-Ethyltoluene	1.7
Propylene	11
Tetrachloroethene	12
Tetrahydrofuran	5.8
Toluene	4.5
Trichlorofluoromethane	2.3

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Site Plan - Soil Vapor Analytical Summary

355 Exterior Street
Bronx, NY

FIGURE NO:

4

TABLES

Table 1
Soil Analytical Summary Tables for Volatile Organic Compounds

Analyte:	CAS Number	NYSDEC (1) Soil Cleanup Objectives Unrestricted Use	NYSDEC (2) Soil Cleanup Objectives Restricted-Residential Use	355-399 Exterior Street - Bronx, New York						
				SB009 2-4' 5/10/2019 19E0591-26	SB009 6-8' 5/10/2019 19E0591-25	SB009 8-10' 5/10/2019 19E0591-27	SB009_N 8-10' 5/10/2019 19E0591-39	SB009_W 8-10' 5/10/2019 19E0591-40	SB009_E 8-10' 5/10/2019 19E0591-38	SB016 6-8' 6/6/2019 L1924473-21
Method 8260C - Volatile Organic Compounds by GC/MS - (mg/kg)										
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00016 U
1,1,1-Trichloroethane	71-55-6	0.68	100[a]	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.0002 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.0002 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	-
1,1,2-Trichloroethane	79-00-5	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00033 U
1,1-Dichloroethane	75-34-3	0.27	26	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00018 U
1,1-Dichloroethylene	75-35-4	0.33	100[a]	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00029 U
1,1-Dichloropropylene	563-58-6	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.0002 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00039 U
1,2,3-Trichloropropane	96-18-4	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00016 U
1,2,4,5-Tetramethybenzene	95-93-2	NS	NS	-	-	-	-	-	-	0.00023 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00033 U
1,2,4-Trimethylbenzene	95-63-6	3.6	52	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	160	0.00041 U
1,2-Dibromo-3-chloropropane	96-12-8	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.0012 U
1,2-Dibromoethane	106-93-4	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00034 U
1,2-Dichlorobenzene	95-50-1	1.1	100[a]	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00018 U
1,2-Dichloroethane	107-06-2	0.02[c]	3.1	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00032 U
1,2-Dichloropropane	78-87-5	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00015 U
1,3,5-Trimethylbenzene	108-67-8	8.4	52	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	63	0.00024 U
1,3-Dichlorobenzene	541-73-1	2	49	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00018 U
1,3-Dichloropropane	142-28-9	NS	NS	-	-	-	-	-	-	0.0002 U
1,4-Dichlorobenzene	106-46-7	2	13	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00021 U
1,4-Dioxane	123-91-1	0.1[b]	13	0.061 U	0.054 U	4.3 U	0.065 U	0.068 U	14 U	0.043 U
2,2-Dichloropropane	594-20-7	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00025 U
2-Butanone	78-93-3	0.12	100[a]	0.0031 U	0.0027 U	0.21 U	0.0088	0.0034 U	0.70 U	0.019
2-Chlorotoluene	95-49-8	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00023 U
2-Hexanone	591-78-6	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.0014 U
4-Chlorotoluene	106-43-4	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00013 U
4-Methyl-2-pentanone	108-10-1	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.0016 U
Acetone	67-64-1	0.05	100[a]	0.0061 U	0.0059 J	0.43 U	0.037	0.0074 J	1.4 U	0.11
Acrolein	107-02-8	NS	NS	0.0061 U	0.0054 U	0.43 U	0.0065 U	0.0068 U	1.4 U	-
Acrylonitrile	107-13-1	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.0014 U
Benzene	71-43-2	0.06	4.8	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.0002 U
Bromobenzene	108-86-1	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00018 U
Bromochloromethane	74-97-5	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00025 U
Bromodichloromethane	75-27-4	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00013 U
Bromoform	75-25-2	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.0003 U
Bromomethane	74-83-9	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00071 U
Carbon disulfide	75-15-0	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.0056 U
Carbon tetrachloride	56-23-5	0.76	2.4	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00028 U
Chlorobenzene	108-90-7	1.1	100[a]	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00016 U
Chloroethane	75-00-3	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00055 U
Chloroform	67-66-3	0.37	49	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00017 U
Chloromethane	74-87-3	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.0011 U
cis-1,2-Dichloroethene	156-59-2	0.25	100[a]	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00021 U
cis-1,3-Dichloropropene	10061-01-5	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00019 U
Cyclohexane	110-82-7	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	-
Dibromochloromethane	124-48-1	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00017 U
Dibromomethane	74-95-3	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00029 U
Dichlorodifluoromethane	75-71-8	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.0011 U
Ethyl Ether	60-29-7	NS	NS	-	-	-	-	-	-	0.00042 U
Ethylbenzene	100-41-4	1	41	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	1.1 J	0.00017 U
Hexachlorobutadiene	87-68-3	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00021 U
Isopropylbenzene	98-82-8	NS	NS	0.0031 U	0.0027 U	0.24 J	0.0033 U	0.0034 U	13	0.00013 U
Methyl Acetate	79-20-9	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	-
Methyl tert butyl ether	1634-04-4	0.93	100[a]	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00036 J
Methylcyclohexane	108-87-2	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	4.2	-
Methylene chloride	75-09-2	0.05	100[a]	0.0068 J	0.0054 U	0.43 U	0.0065 U	0.010 J	1.4 U	0.0028 U
Naphthalene	91-20-3	12	100[a]	-	-	-	-	-	-	0.0008 U
n-Butylbenzene	104-51-8	12	100[a]	0.0031 U	0.0027 U	0.63	0.0033 U	0.0034 U	17	0.0002 U
n-Propylbenzene	103-65-1	3.9	100[a]	0.0031 U	0.0027 U	0.39 J	0.0033 U	0.0034 U	33	0.00021 U
o-Xylene	95-47-6	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.81 J	0.00036 U
p/m-Xylene	179601-23-1	NS	NS	0.0061 U	0.0054 U	0.43 U	0.0065 U	0.0068 U	1.4 U	0.00069 U
p-Diethylbenzene	105-05-5	NS	NS	-	-	-	-	-	-	0.00022 U
p-Ethyltoluene	622-96-8	NS	NS	-	-	-	-	-	-	0.00047 U
p-Isopropyltoluene	99-87-6	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	19	0.00013 U
sec-Butylbenzene	135-98-8	11	100[a]	0.0031 U	0.0027 U	1.5	0.0033 U	0.0034 U	24	0.00018 U
Styrene	100-42-5	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00024 U
tert-Butyl alcohol	75-65-0	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	-
tert-Butylbenzene	98-06-6	5.9	100[a]	0.0031 U	0.0027 U	0.40 J	0.0033 U	0.0034 U	2.0	0.00014 U
Tetrachloroethene	127-18-4	1.3	19	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00024 U
Toluene	108-88-3	0.7	100[a]	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00067 U
trans-1,2-Dichloroethene	156-60-5	0.19	100[a]	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00017 U
trans-1,3-Dichloropropene	10061-02-6	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00033 U
trans-1,4-Dichloro-2-butene	110-57-6	NS	NS	-	-	-	-	-	-	0.0017 U
Trichloroethene	79-01-6	0.47	21	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00017 U
Trichlorofluoromethane	75-69-4	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00085 U
Vinyl acetate	108-05-4	NS	NS	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.0026 U
Vinyl chloride	75-01-4	0.02	0.9	0.0031 U	0.0027 U	0.21 U	0.0033 U	0.0034 U	0.70 U	0.00041 U
Xylenes, Total	1330-20-7	0.26	100[a]	0.0092 U	0.0082 U	0.64 U	0.0098 U	0.010 U	2.1 U	0.00036 U

Notes:
(1) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use of Soil Cleanup Objective Table 375-6.8a 12/06
b - For constituents where the calculated SCO was lower than the CRQL, the CRQL is used as the Track 1 SCO value.
c - For constituents where the calculated SCO was lower than the rural soil background concentration, the rural soil background concentration is used as the Track 1 SCO value.
(2) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restriced Use of Soil Cleanup Objective Table 375-6.8b 12/06
a - The SCOs for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 ppm.
U - Indicates the analyte was analyzed for but not detected.
Highlighted text denotes concentrations exceeding the NYSDEC Unrestricted Use SCO
Highlighted text denotes concentrations exceeding the NYSDEC Restricted-Residential Use SCO

Table 2A
Soil Analytical Summary Tables for Semi-Volatile Organic Compounds and Metals

Analyte:	CAS Number	NYSDEC (1) Soil Cleanup Objectives Unrestricted Use	NYSDEC (2) Soil Cleanup Objectives Restricted-Residential Use	355-399 Exterior Street - Bronx, New York																		
				SB007 0-2' 5/10/2019 19E0591-21	SB007 8-10' 5/10/2019 19E0591-19	SB007 12-14' 5/10/2019 19E0591-20	SB008 0-2' 5/10/2019 19E0591-23	SB008 4-6' 5/10/2019 19E0591-24	DUPE002 4-6' 5/10/2019 19E0591-36	SB008 6-8' 5/10/2019 19E0591-22	DUPE001 6-8' 5/10/2019 19E0591-35	SB008 8-10' 6/6/2019 L1924473-06	SB008 10-12' 6/6/2019	SB009 2-4' 5/10/2019 19E0591-26	SB009 6-8' 5/10/2019 19E0591-25	SB009 8-10' 5/10/2019 19E0591-27	SB010 0-2' 5/10/2019 19E0591-28	SB010 2-4' 5/10/2019 19E0591-30	SB010 6-8' 5/10/2019 19E0591-29
Method: 8270 D - Semivolatile Organic Compounds (GC/MS) - (mg/kg)																						
1,1-Biphenyl	92-52-4	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0532 U	0.0568 U	0.0544 U	-	-	0.0485 U	0.0474 U	0.241 U	1.29 U	0.551	0.0546 U			
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	0.0977 U	0.112 U	0.144 U	0.113 U	0.110 U	0.106 U	0.113 U	0.109 U	0.02 U	0.024 U	0.0967 U	0.0946 U	0.480 U	2.57 U	0.105 U	0.109 U			
1,2,4-Trichlorobenzene	120-82-1	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.022 U	0.026 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
1,2-Dichlorobenzene	95-50-1	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.035 U	0.041 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
1,2-Diphenylhydrazine	122-66-7	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	-	-	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
1,3-Dichlorobenzene	541-73-1	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.034 U	0.039 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
1,4-Dichlorobenzene	106-46-7	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.034 U	0.04 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
1,4-Dioxane	123-91-1	0.1[a]	13									0.009 U	0.01 U					-				
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	0.0977 U	0.112 U	0.144 U	0.113 U	0.110 U	0.106 U	0.113 U	0.109 U			0.0967 U	0.0946 U	0.480 U	2.57 U	0.105 U	0.109 U			
2,4,5-Trichlorophenol	95-95-4	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.038 U	0.044 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
2,4,6-Trichlorophenol	88-06-2	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.037 U	0.043 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
2,4-Dichlorophenol	120-83-2	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.032 U	0.037 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
2,4-Dimethylphenol	105-67-9	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.065 U	0.076 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
2,4-Dinitrophenol	51-28-5	NS	NS	0.0977 U	0.112 U	0.144 U	0.113 U	0.110 U	0.106 U	0.113 U	0.109 U	0.092 U	0.11 U	0.0967 U	0.0946 U	0.480 U	2.57 U	0.105 U	0.109 U			
2,4-Dinitrotoluene	121-14-2	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.039 U	0.046 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
2,6-Dinitrotoluene	606-20-2	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.034 U	0.039 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
2-Chloronaphthalene	91-58-7	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.02 U	0.023 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
2-Chlorophenol	95-57-8	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.023 U	0.027 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
2-Methylnaphthalene	91-57-6	NS	NS[e]	0.0490 U	0.0562 U	0.0720 U	0.0740 J	0.0551 U	0.0523 U	0.0824 J	0.109 J	0.34	0.028 U	0.0485 U	0.0474 U	0.241 U	1.29 U	1.14	0.0546 U			
2-Methylphenol	95-48-7	0.33[b]	100[e]	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.03 U	0.036 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
2-Nitroaniline	88-74-4	NS	NS	0.0977 U	0.112 U	0.144 U	0.113 U	0.110 U	0.106 U	0.113 U	0.109 U	0.038 U	0.044 U	0.0967 U	0.0946 U	0.480 U	2.57 U	0.105 U	0.109 U			
2-Nitrophenol	88-75-5	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.074 U	0.086 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
3+4-Methylphenol	106-44-5	100[e]	100[e]	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.13 J	0.57	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
3,3'-Dichlorobenzidine	91-94-1	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.052 U	0.061 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
3-Nitroaniline	99-09-2	NS	NS	0.0977 U	0.112 U	0.144 U	0.113 U	0.110 U	0.106 U	0.113 U	0.109 U	0.037 U	0.043 U	0.0967 U	0.0946 U	0.480 U	2.57 U	0.105 U	0.109 U			
4,6-Dinitro-o-cresol	534-52-1	NS	NS	0.0977 U	0.112 U	0.144 U	0.113 U	0.110 U	0.106 U	0.113 U	0.109 U	0.094 U	0.11 U	0.0967 U	0.0946 U	0.480 U	2.57 U	0.105 U	0.109 U			
4-Bromophenyl phenyl ether	101-55-3	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.03 U	0.035 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
4-Chloro-3-methylphenol	59-50-7	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.029 U	0.034 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
4-Chloroaniline	106-47-8	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.036 U	0.042 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
4-Chlorophenyl phenyl ether	7005-72-3	NS	NS	0.0977 U	0.112 U	0.144 U	0.113 U	0.110 U	0.106 U	0.113 U	0.109 U	0.021 U	0.024 U	0.0967 U	0.0946 U	0.480 U	2.57 U	0.105 U	0.109 U			
4-Nitroaniline	100-01-6	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.081 U	0.095 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
4-Nitrophenol	100-02-7	NS	NS	0.0977 U	0.112 U	0.144 U	0.113 U	0.110 U	0.106 U	0.113 U	0.109 U	0.08 U	0.094 U	0.0967 U	0.0946 U	0.480 U	2.57 U	0.105 U	0.109 U			
Acenaphthene	83-32-9	20	100[e]	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.105 J	0.108	0.139	0.108 J	1.1	0.032 J	0.0485 U	0.0474 U	0.241 U	1.29 U	3.12	0.0546 U			
Acenaphthylene	208-96-8	100[e]	100[e]	0.0490 U	0.0562 U	0.0849 J	0.0731 J	0.0551 U	0.0523 U	0.0568 U	0.162	0.67	0.035 U	0.0727 J	0.0474 U	0.241 U	1.29 U	0.186	0.0546 U			
Acetophenone	98-86-2	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.024 U	0.028 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Aniline	62-53-3	NS	100[e]	0.196 U	0.224 U	0.287 U	0.226 U	0.220 U	0.213 U	0.227 U	0.217 U	-	-	0.194 U	0.189 U	0.962 U	5.15 U	0.210 U	0.218 U			
Anthracene	120-12-7	100[e]	100[e]	0.0490 U	0.0797 J	0.120 J	0.0566 U	0.386	0.515	0.359	0.304	3	0.086 J	0.144	0.0474 U	0.241 U	1.29 U	6.72	0.0819 J			
Atrazine	1912-24-9	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	-	-	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Benzaldehyde	100-52-7	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	-	-	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Benzidine	92-87-5	NS	NS	0.196 U	0.224 U	0.287 U	0.226 U	0.220 U	0.213 U	0.227 U	0.217 U	-	-	0.194 U	0.189 U	0.962 U	5.15 U	0.210 U	0.218 U			
Benzo(a)anthracene	56-55-3	1[c]	1[f]	0.214	0.259	0.327	0.188	0.742	1.08	0.964	1.14	6.5	0.28	0.097	0.0474 U	0.241 U	1.29 U	19.0	0.252			
Benzo(a)pyrene	50-32-8	1[c]	1[f]	0.284	0.272	0.491	0.261	0.753	1.28	1.20	1.50	6.4	0.25	1.84	0.0474 U	0.241 U	1.29 U	21.1	0.281			
Benzo(b)fluoranthene	205-99-2	1[c]	1[f]	0.252	0.158	0.248	0.261	0.590	0.921	0.865	1.22	7.5	0.26	0.726	0.0474 U	0.241 U	1.29 U	22.0	0.219			
Benzo(ghi)perylene	191-24-2	100	100[e]	0.196	0.114	0.277	0.182	0.457	0.689	0.798	1.00	3.9	0.14 J	0.581	0.0474 U	0.241 U	1.29 U	13.5	0.196			
Benzo(k)fluoranthene	207-08-9	0.8[c]	3.9	0.210	0.154	0.263	0.209	0.473	0.765	0.717	1.11	2.3	0.075 J	0.712	0.0474 U	0.241 U	1.29 U	18.6	0.186			
Benzoic Acid	65-85-0	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.2 U	0.23 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Benzyl Alcohol	100-51-6	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.06 U	0.07 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Biphenyl	92-52-4	NS	NS	-	-	-	-	-	-	-	-	0.15 J	0.053 U	-	-	-	-	-	-			
Butyl benzyl phthalate	85-68-7	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.05 U	0.058 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Bis(2-chloroethoxy)methane	111-91-1	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.02 U	0.023 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Bis(2-chloroethyl)ether	111-44-4	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.027 U	0.031 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Bis(2-chloroisopropyl)ether	108-60-1	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.034 U	0.039 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Bis(2-Ethylhexyl)phthalate	117-81-7	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.068 U	0.079 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Caprolactam	105-60-2	NS	NS	0.0977 U	0.112 U	0.144 U	0.113 U	0.110 U	0.106 U	0.113 U	0.109 U	-	-	0.0967 U	0.0946 U	0.480 U	2.57 U	0.105 U	0.109 U			
Carbazole	86-74-8	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.111 J	0.246	1.1	0.022 U	0.0485 U	0.0474 U	0.241 U	1.29 U	1.57	0.0546 U			
Chrysene	218-01-9	1[c]	3.9	0.219	0.228	0.319	0.200	0.654	0.948	0.830	1.27	5.5	0.24	0.833	0.0474 U	0.241 U	1.29 U	17.4	0.227			
Dibenz(a,h)anthracene	53-70-3	0.33[b]	0.33[e]	0.0609 J	0.0562 U	0.0720 U	0.0604 J	0.141	0.214	0.177	0.269	0.75	0.031 J	0.176	0.0474 U	0.241 U	1.29 U	5.84	0.0546 U			
Dibenzofuran	132-64-9	7	59	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0799 J	0.0815 J	0.0598 J	0.128	0.94	0.022 U	0.0485 U	0.0474 U	0.241 U	1.29 U	2.24	0.0546 U			
Diethyl phthalate	84-66-2	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.018 U	0.021 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Dimethyl phthalate	131-11-3	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.041 U	0.048 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Di-n-butylphthalate	84-74-2	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.037 U	0.043 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Di-n-octylphthalate	117-84-0	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.067 U	0.078 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Fluoranthene	206-44-0	100[e]	100[e]	0.362	0.501	0.555	0.281	1.49	2.23	1.80	2.83	23	0.4	1.30	0.0474 U	0.241 U	1.29 U	41.6	0.459			
Fluorene	86-73-7	30	100[e]	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.122	0.238	0.129	0.169	0.95	0.03 J	0.0485 U	0.0474 U	0.241 U	1.29 U	2.42	0.0546 U			
Hexachlorobenzene	118-74-1	0.33[b]	1.2	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.022 U	0.026 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Hexachlorobutadiene	87-68-3	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.029 U	0.034 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Hexachlorocyclopentadiene	77-47-4	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.18 U	0.21 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Hexachloroethane	67-72-1	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.032 U	0.037 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Indeno(1,2,3-cd)Pyrene	193-39-5	0.5[c]	0.5[f]	0.216	0.142	0.270	0.225		0.779	0.908	1.18	4.2	0.13 J	0.628		0.241 U	1.29 U	16.9	0.217			
Isophorone	78-59-1	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.026 U	0.03 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Naphthalene	91-20-3	12	100[e]	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0676 J	0.0611 J	0.0568 U	0.135	1.1	0.078 J	0.0485 U	0.0474 U	0.241 U	1.29 U	7.85	0.0546 U			
Nitrobenzene	98-95-3	NS	15	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.029 U	0.034 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
N-Nitrosodimethylamine	62-75-9	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U			0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
n-Nitrosodi-n-propylamine	621-64-7	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.03 U	0.035 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	NS	NS	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.022 U	0.026 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Pentachlorophenol	87-86-5	0.8[b]	6.7	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.043 U	0.05 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Phenanthrene	85-01-8	100	100[e]	0.133	0.365	0.171	0.131	0.999	1.39	1.35	1.99	17	0.27	0.447	0.0474 U	0.241 U	1.29 U	25.5	0.315			
Phenol	108-95-2	0.33[b]	100[e]	0.0490 U	0.0562 U	0.0720 U	0.0566 U	0.0551 U	0.0523 U	0.0568 U	0.0544 U	0.075 J	0.035 U	0.0485 U	0.0474 U	0.241 U	1.29 U	0.0526 U	0.0546 U			
Pyrene	129-00-0	100	100[e]	0.305	0.561	0.731	0.257	1.42	1.95	1.63	2.22	21	0.5	1.38	0.0474 U	0.241 U	1.29 U	32.9	0.383			
Pyridine	110-86-1	NS	NS	0.196 U	0.224 U	0.287 U	0.226 U	0.220 U	0.213 U	0.227 U	0.217 U	-	-	0.194 U	0.189 U	0.962 U	5.15 U	0.210 U	0.218 U			
Method: 6010C - Metals (ICP) - (mg/kg)																						
Aluminum, Total	7429-90-5	NS	NS	11,900	6,780	21,400	4,130	5,780	5,370	12,700	9,690	-	-	4,740	10,900	17,900	3,580	5,660	5,830			
Antimony, Total	7440-36-0	NS	NS	2.95 U	3.39 U	4.32 U	3.40 U	3.31 U	3.2 U	3.41 U	3.27 U	-	-	2.92 U	2.85 U	2.91 U	3.12 U	3.18 U	3.30 U			
Arsenic, Total	7440-38-2	13[c]	16[f]	5.67	8.26	22.1	3.53	29.7	5.95	4.78	3.94	-	-	6.39	1.71 U	2.37	3.89	5.33	4.18			
Barium, Total	7440-39-3	350[f]	400	147	376	133	62.1	154	41.5	56.5	39.2	-	-	278	93.3	166	32.9	55.0	53.1			
Beryllium, Total	7440-41-7	7.2	72	0.320	0.712	0.704	0.208	0.199	0.101	0.258	0.325	-	-	0.282	0.057 U	0.058 U	0.062 B	0.084 B	0.066 U			
Cadmium, Total	7440-43-9	2.5[c]	4.3	0.947	0.602	0.827	0.409 U	1.30	1.42	0.409 U	0.392 U	-	-	1.21	2.25	0.426	0.424	2.40	0.396 U			
Calcium, Total	7440-70-2	NS	NS	11,000	9,660	3,400	34,200	15,500	16,500	15,900	6,000	-	-	8,070	16,200	12,400	73,600	16,900	2,900			
Chromium, Total	7440-47-3	30[c]	180[h]	15.4	11.7	59.6	7.93	14.3	8.29	17.3	12.7	-	-	10.2	18.5	26.5	11.1	9.77	12.9			
Cobalt, Total	7440-48-4	NS	NS	8.65	12.0	16.1	5.62	6.25	4.98	8.83	7.92	-	-	8.13	11.9	20.9	4.43	5.11	8.36			
Copper, Total	7440-50-8	50	270	117	170	158	37.5	336	381	19.8	18.8	-	-	244	18.9	44.2	21.2	1,430	35.0			
Iron, Total	7439-89-6	NS	NS	18,000	10,300	39,800	10,600	13,400	10,100	17,300	15,600	-	-	10,100	16,900	29,700	10,900	13,500	10,600			
Lead, Total	7439-92-1	63[c]	400	101	431	365	50.9	455	135	20.1	24.8	-	-	357	6.24	77.8	62.4	779	52.1			
Magnesium	7439-92-1	NS	NS	2,920	913	8,990	3,390	5,280	8,910	7,310	3,730	-	-	1,370	14,700	15,100	39,200	7,550	3,060			
Manganese, Total	7439-96-5	1,600[c]	2,000[f]	416	329	463	160	235	232	261	254	-	-	145	1,760	226	240	240	183			
Nickel, Total	7440-02-0	30	310	18.8	22.1	39.5	13.1	13.1	10.3	16.6	15.3	-	-	15.3	21.5	39.6	9.45	19.7	17.0			
Potasium, Total	7440-09-7	NS	NS	1,580	1,060	4,460	752	850	800	1,630	1,060	-	-	560	3,240	8,920	847	923	1,260			
Selenium, Total	7782-49-2	3.9[c]	180	2.95 U	3.39 U	4.32 U	3.40 U	3.31 U	3.2 U	3.41 U	3.27 U	-	-	2.92 U	2.85 U	2.91 U	18.8	3.18 U	3.30 U			
Silver, Total	7440-22-4	2	180	0.590 U	0.679 U	0.864 U	0.681 U	0.661 U	0.639 U	0.682 U	0.653 U	-	-	0.584 U	0.569 U	0.582 U	0.623 U	0.636 U	0.660 U			
Sodium, Total	7440-23-5	NS	NS	444	1,950	2,780	214	296	273	284	207	-	-	217	267	801	156	198	290			
Thallium, Total	7440-23-5	NS	NS	2.95 U	3.39 U	4.32 U	3.40 U	3.31 U	3.2 U	3.41 U	3.27 U	-	-	2.92 U	2.85 U	2.91 U	3.12 U	3.18 U	3.30 U			
Vanadium, Total	7440-62-2	NS	NS	23.1	26.3	51.0	11.9	19.0	16.1	26.4	16.8	-	-	22.8	28.0	46.3	14.7	15.4	19.1			
Zinc, Total	7440-66-6	109[c]	10,000[f]	268	399	280	57.5	531	645	50.8	43.3	-	-	385	474	104	72.7	1,430	56.3			
Method: 7471B - Mercury (CVAA) - (mg/kg)																						
Mercury, Total	7439-97-6	0.18[c]	0.81[i]	0.462	1.40	5.38	0.0673	0.746	0.613	0.244	0.142	-	-	0.347	0.0342 U	0.243	0.216	0.315	0.258			

Notes:
(1) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use of Soil Cleanup Objective Table 375-6.8a 12/06
a- The SCOs for unrestricted use were capped at a maximum value of 100 ppm.
b - For constituents where the calculated SCO was lower than the CRQL, the CRQL is used as the Track 1 SCO value.
c - For constituents where the calculated SCO was lower than the rural soil background concentration, the rural soil background concentration is used as the Track 1 SCO value.
d - SCO is the sum of endosulfan I, endosulfan II and endosulfan sulfate.
e - The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.
(2) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use of Soil Cleanup Objective Table 375-6.8b 12/06
a - The SCOs for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 ppm.
c - The SCOs for industrial use and protection of groundwater were capped at a maximum value of 1000 ppm.
d - The SCOs for metals were capped at a maximum value of 10,000 ppm.
e - For constituents where the calculated SCO was lower than the CRQL, the CRQL is used as the SCO value.
f - For constituents where the calculated SCO was lower than the rural soil background concentration, as determined by the department and department of health rural soil survey, the rural soil background concentration is used as the Track 2 SCO value for this use of the site.
h - The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.
i - This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.
j - This SCO is the lower of the values for mercury (elemental) or mercury (inorganic salts).
B - Compound was found in the blank and sample.
I - The lower value for

Table 2B
Soil Analytical Summary Tables for Semi-Volatile Organic Compounds, Metals, Pesticides and PCBs

Analyte:	CAS Number	NYSDEC[1] Soil Cleanup Objectives Unrestricted Use	NYSDEC[2] Soil Cleanup Objectives Restricted-Residential Use	355-399 Exterior Street - Bronx, New York																	
				SB016 6-8' 6/6/2019 L1924473-21		SB016 8-10' 6/6/2019 L1924473-22	SB016 10-12' 6/6/2019 L1924473-23	SB017 6-8' 6/6/2019 L1924473-01	SB018 0-7 7/5/2019 L1929439-01	SB018 3-6' 7/5/2019 L1929439-02	SB019 0-7 7/5/2019 L1929439-04	SB019 3-6' 7/5/2019 L1929439-05	SB019 6-9' 7/5/2019 L1929439-06	SB020 0-7 7/5/2019 L1929439-07	SB021 0-7 7/5/2019 L1929439-08	SB021 3-6' 7/5/2019 L1929439-09	SB021 6-9' 7/5/2019 L1929439-10	SB022 0-7 7/5/2019 L1929439-11	SB023 0-7 7/5/2019 L1929439-12	SB023 3-6' 7/5/2019 L1929439-13
Method: 8270 D - Semivolatile Organic Compounds (GC/MS) - (mg/kg)																					
1,1-Biphenyl	92-52-4	NS	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	0.024	U	-	-	0.021	U	0.018	U	0.019	U	0.019	U	0.02	U	-	0.019	U	0.019	U	0.019	U	0.019	U	0.019	U	0.02	U	0.019	U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	0.026	U	-	-	0.023	U	0.02	U	0.021	U	0.021	U	0.022	U	-	0.021	U	0.021	U	0.02	U	0.021	U	0.021	U	0.022	U	0.021	U
1,2-Dichlorobenzene	95-50-1	NS	NS	0.041	U	-	-	0.036	U	0.031	U	0.033	U	0.033	U	0.035	U	-	0.033	U	0.032	U	0.032	U	0.033	U	0.033	U	0.035	U	0.033	U
1,2-Diphenylhydrazine	122-66-7	NS	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	541-73-1	NS	NS	0.039	U	-	-	0.035	U	0.03	U	0.031	U	0.031	U	0.034	U	-	0.031	U	0.031	U	0.031	U	0.032	U	0.031	U	0.034	U	0.032	U
1,4-Dichlorobenzene	106-46-7	NS	NS	0.04	U	-	-	0.035	U	0.03	U	0.032	U	0.032	U	0.034	U	-	0.032	U	0.032	U	0.031	U	0.032	U	0.032	U	0.034	U	0.032	U
1,4-Dioxane	123-91-1	0.1[a]	13	0.01	U	-	-	0.0093	U	0.0084	U	0.0088	U	0.0084	U	0.0091	U	-	0.0084	U	0.0088	U	0.0082	U	0.0084	U	0.0094	U	0.009	U	0.0086	U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	95-95-4	NS	NS	0.044	U	-	-	0.039	U	0.034	U	0.035	U	0.035	U	0.038	U	-	0.035	U	0.035	U	0.034	U	0.035	U	0.035	U	0.037	U	0.036	U
2,4,6-Trichlorophenol	88-06-2	NS	NS	0.043	U	-	-	0.038	U	0.033	U	0.035	U	0.035	U	0.037	U	-	0.035	U	0.034	U	0.034	U	0.035	U	0.035	U	0.037	U	0.035	U
2,4-Dichlorophenol	120-83-2	NS	NS	0.037	U	-	-	0.033	U	0.028	U	0.029	U	0.029	U	0.032	U	-	0.029	U	0.029	U	0.029	U	0.03	U	0.029	U	0.031	U	0.03	U
2,4-Dimethylphenol	105-67-9	NS	NS	0.057	U	-	-	0.067	U	0.058	U	0.06	U	0.06	U	0.065	U	-	0.06	U	0.06	U	0.059	U	0.061	U	0.06	U	0.064	U	0.061	U
2,4-Dinitrophenol	51-28-5	NS	NS	0.11	U	-	-	0.095	U	0.082	U	0.085	U	0.085	U	0.092	U	-	0.085	U	0.084	U	0.083	U	0.086	U	0.085	U	0.091	U	0.087	U
2,4-Dinitrotoluene	121-14-2	NS	NS	0.046	U	-	-	0.041	U	0.035	U	0.037	U	0.036	U	0.039	U	-	0.036	U	0.036	U	0.036	U	0.037	U	0.036	U	0.039	U	0.037	U
2,6-Dinitrotoluene	606-20-2	NS	NS	0.035	U	-	-	0.03	U	0.031	U	0.031	U	0.031	U	0.034	U	-	0.031	U	0.031	U	0.03	U	0.032	U	0.031	U	0.033	U	0.032	U
2-Chloronaphthalene	91-58-7	NS	NS	0.022	U	-	-	0.02	U	0.017	U	0.018	U	0.018	U	0.02	U	-	0.018	U	0.018	U	0.018	U	0.018	U	0.018	U	0.019	U	0.018	U
2-Chlorophenol	95-57-8	NS	NS	0.027	U	-	-	0.024	U	0.021	U	0.022	U	0.022	U	0.023	U	-	0.022	U	0.021	U	0.021	U	0.022	U	0.022	U	0.023	U	0.022	U
2-Methylnaphthalene	91-57-6	NS	NS	0.027	U	-	-	0.024	U	0.021	U	0.093	J	0.032	J	0.054	J	-	0.12	J	0.039	J	0.78	-	0.022	U	0.071	J	0.024	U	0.022	U
2-Methylphenol	95-48-7	0.33[3]	100[3]	0.035	U	-	-	0.031	U	0.027	U	0.028	U	0.028	U	0.03	U	-	0.028	U	0.028	U	0.028	U	0.028	U	0.028	U	0.03	U	0.029	U
2-Nitroaniline	88-74-4	NS	NS	0.044	U	-	-	0.039	U	0.034	U	0.035	U	0.035	U	0.038	U	-	0.035	U	0.035	U	0.034	U	0.035	U	0.035	U	0.038	U	0.036	U
2-Nitrophenol	88-75-5	NS	NS	0.086	U	-	-	0.076	U	0.066	U	0.069	U	0.069	U	0.074	U	-	0.069	U	0.068	U	0.067	U	0.069	U	0.069	U	0.073	U	0.07	U
3+4-Methylphenol	106-44-5	100[3]	100[3]	0.077	U	-	-	0.032	U	0.027	U	0.029	U	0.029	U	0.031	U	-	0.028	U	0.028	U	0.028	U	0.029	U	0.029	U	0.03	U	0.029	U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	0.06	U	-	-	0.054	U	0.049	U	0.048	U	0.048	U	0.052	U	-	0.048	U	0.048	U	0.047	U	0.049	U	0.049	U	0.052	U	0.049	U
3-Nitroaniline	99-09-2	NS	NS	0.043	U	-	-	0.038	U	0.033	U	0.034	U	0.034	U	0.037	U	-	0.034	U	0.034	U	0.034	U	0.035	U	0.034	U	0.037	U	0.035	U
4,6-Dinitro-o-cresol	534-52-1	NS	NS	0.11	U	-	-	0.097	U	0.084	U	0.088	U	0.088	U	0.095	U	-	0.088	U	0.087	U	0.086	U	0.088	U	0.088	U	0.094	U	0.089	U
4-Bromophenyl-phenyl ether	101-55-3	NS	NS	0.035	U	-	-	0.031	U	0.027	U	0.028	U	0.028	U	0.03	U	-	0.028	U	0.028	U	0.027	U	0.028	U	0.028	U	0.03	U	0.028	U
4-Chloro-3-methylphenol	59-50-7	NS	NS	0.034	U	-	-	0.03	U	0.026	U	0.027	U	0.027	U	0.029	U	-	0.027	U	0.027	U	0.026	U	0.027	U	0.027	U	0.029	U	0.028	U
4-Chloroaniline	106-47-8	NS	NS	0.041	U	-	-	0.037	U	0.032	U	0.033	U	0.033	U	0.036	U	-	0.033	U	0.033	U	0.032	U	0.033	U	0.033	U	0.035	U	0.034	U
4-Chlorophenyl-phenyl ether	7005-72-3	NS	NS	0.024	U	-	-	0.022	U	0.019	U	0.02	U	0.02	U	0.021	U	-	0.019	U	0.019	U	0.019	U	0.02	U	0.02	U	0.021	U	0.02	U
4-Nitroaniline	100-01-6	NS	NS	0.094	U	-	-	0.084	U	0.072	U	0.076	U	0.076	U	0.082	U	-	0.076	U	0.075	U	0.074	U	0.076	U	0.076	U	0.081	U	0.077	U
4-Nitrophenol	100-02-7	NS	NS	0.093	U	-	-	0.083	U	0.071	U	0.074	U	0.074	U	0.08	U	-	0.074	U	0.073	U	0.073	U	0.075	U	0.074	U	0.08	U	0.076	U
Acenaphthene	83-32-9	20	100[3]	0.024	U	-	-	0.021	U	0.023	J	0.094	J	0.026	J	0.061	J	-	0.12	J	0.019	U	1	-	0.019	U	0.1	J	0.02	U	0.019	J
Acenaphthylene	208-96-8	100[3]	100[3]	0.035	U	-	-	0.031	U	0.088	J	0.086	J	0.33	-	0.06	J	-	0.19	J	0.042	J	0.22	-	0.028	U	0.11	J	0.03	U	0.049	J
Acetophenone	98-86-2	NS	NS	0.028	U	-	-	0.025	U	0.022	U	0.023	U	0.023	U	0.024	U	-	0.022	U	0.022	U	0.022	U	0.023	U	0.023	U	0.024	U	0.023	U
Aniline	62-53-3	NS	100[3]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	120-12-7	100[3]	100[3]	0.044	U	-	-	0.04	U	0.098	J	0.22	-	0.16	-	0.14	-	-	0.39	-	0.048	J	3.6	-	0.036	U	0.33	-	0.038	U	0.065	J
Atrazine	1912-24-9	NS	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	100-52-7	NS	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzidine	92-87-5	NS	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	56-55-3	1[c]	1[c]	0.12	J	-	-	0.14	-	0.38	-	0.48	-	0.62	-	0.58	-	-	1.2	-	0.18	-	9	-	0.067	J	0.96	-	0.043	J	0.28	-
Benzo(a)pyrene	50-32-8	1[c]	1[c]	0.12	J	-	-	0.19	-	0.36	-	0.37	-	0.58	-	0.54	-	-	1.3	-	0.18	-	7.2	-	0.062	J	0.87	-	0.048	U	0.24	-
Benzo(b)fluoranthene	205-99-2	1[c]	1[c]	0.12	J	-	-	0.16	-	0.45	-	0.52	-	0.7	-	0.71	-	-	1.4	-	0.25	-	9.2	-	0.09	J	1.1	-	0.056	J	0.31	-
Benzo(ghi)perylene	191-24-2	100	100[3]	0.063	J	-	-	0.16	-	0.24	-	0.25	-	0.42	-	0.33	-	-	0.62	-	0.13	J	5.6	-	0.041	J	0.5	-	0.028	J	0.17	-
Benzo(k)fluoranthene	207-08-9	0.8[c]	3.9	0.052	J	-	-	0.032	U	0.17	-	0.19	-	0.26	-	0.26	-	-	0.45	-	0.072	J	3.2	-	0.029	U	0.95	-	0.031	U	0.098	J
Benzoic Acid	65-85-0	NS	NS	0.23	U	-	-	0.2	U	0.18	U	0.18	U	0.18	U	0.2	U	-	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.19	U
Benzyl Alcohol	100-51-6	NS	NS	0.07	U	-	-	0.062	U	0.054	U	0.056	U	0.056	U	0.06	U	-	0.056	U	0.055	U	0.054	U	0.056	U	0.056	U	0.06	U	0.057	U
Biphenyl	92-52-4	NS	NS	0.053	U	-	-	0.047	U	0.041	U	0.042	U	0.042	U	0.046	U	-	0.042	U	0.042	U	0.13	J	0.043	U	0.042	U	0.045	U	0.043	U
Bis(2-ethylhexyl) phthalate	85-68-7	NS	NS	0.057	U	-	-	0.051	U	0.046	U	0.046	U	0.046	U	0.05	U	-	0.046	U	0.046	U	0.045	U	0.046	U	0.046	U	0.049	U	0.047	U
Bis(2-chloroethoxy)methane	111-91-1	NS	NS	0.023	U	-	-	0.02	U	0.018	U	0.018	U	0.018	U	0.02	U	-	0.018	U	0.018	U	0.018	U	0.018	U	0.018	U	0.02	U	0.019	U
Bis(2-chloroethyl)ether	111-44-4	NS	NS	0.028	U	-	-	0.025	U	0.022	U	0.023	U	0.023	U	0.025	U	-	0.023	U	0.022	U	0.024	U	0.023	U	0.023	U	0.025	U	0.024	U
Bis(2-chloroisopropyl)ether	108-60-1	NS	NS	0.039	U	-	-	0.035	U	0.03	U	0.031	U	0.031	U	0.034	U	-	0.031	U	0.031	U	0.03	U	0.031	U	0.031	U	0.033	U	0.032	U
Bis(2-Ethylhexyl)phthalate	117-81-7	NS	NS	0.079	U	-	-	0.07	U	0.06	U	0.063	U	0.49	-	0.17	J	-	0.063	U	0.062	U	0.062	U	0.064	U	0.063	U	0.067	U	0.064	U
Caprolactam	105-60-2	NS	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	86-74-8	NS	NS	0.022	U	-	-	0.02	U	0.038	J	0.094	J	0.045	J	0.067	J	-	0.13	J	0.018	U	0.31	-	0.018	U	0.1	J	0.0149	U	0.028	J
Chrysene	218-01-9	1[c]	3.9	0.12	J	-	-	0.24	-	0.35	-	0.5	-	0.72	-	0.57	-	-	1.2	-	0.19	-	8.9	-	0.058	J	0.95	-	0.045	J	0.26	-
Dibenz(a,h)anthracene	53-70-3	0.33[3]	0.33[3]	0.026	U	-	-	0.062	J	0.057	J	0.061	J	0.11	-	0.096	J	-	0.16	-	0.032	J	1.2	-	0.021	U	0.12	-	0.022	U	0.04	J
Dibenzofuran	132-64-9	7	59	0.022	U	-	-	0.019	U	0.019	J	0.11	J	0.024	J	0.03	J	-	0.14	J	0.017	U	0.47	-	0.017	U	0.056	J	0.018	U	0.018	J
Diethyl phthalate	84-66-2	NS	NS	0.023	U	-	-	0.019	U	0.016	U	0.017	U	0.017	U	0.018	U	-	0.017	U	0.017	U	0.016	U	0.017	U	0.017	U	0.018	U	0.017	U
Dimethyl phthalate	131-11-3	NS	NS	0.048	U	-	-	0.043	U	0.037	U	0.037	U	0.038	U	0.041	U	-	0.038	U	0.038	U	0.037	U	0.039	U	0.038	U	0.041	U	0.039	U
Di-n-butylphthalate	84-74-2	NS	NS	0.043	U	-	-	0.038	U	0.05	J	0.12	J	0.035	U	0.054	J	-	0.035	U	0.034	U	0.034	U	0.035	U	0.043	J	0.037	U	0.035	U
Di-n-octylphthalate	117-84-0	NS	NS	0.077	U	-	-	0.069	U	0.062	U	0.062	U	0.062	U	0.067	U	-	0.062	U	0.061	U	0.06	U	0.062	U	0.062	U	0.066	U	0.063	U
Fluoranthene	206-44-0	100[3]	100[3]	0.21	-	-	-	0.11	-	0.68	-	1.2	-	0.85	-	0.78	-	-	2.1	-	0.27	-	16	-	0.12	-	1.7	-	0.078	J	0.49	-
Fluorene	86-73-7	30	100[3]	0.022	U	-	-	0.02	U	0.017	U	0.13	J	0.018	U	0.044	J	-	0.15	J	0.018	U	0.94	-	0.018	U	0.093	J	0.019	U	0.022	J
Hexachlorobenzene	118-74-1	0.33[3]	1.2	0.025	U	-	-	0.023	U	0.02	U	0.02	U	0.02	U	0.022	U	-	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.022	U	0.021	U
Hexachlorobutadiene	87-68-3	NS	NS	0.033	U	-	-	0.03	U	0.026	U	0.027	U	0.027	U	0.029	U	-	0.027	U	0.026	U	0.026	U	0.027	U	0.027	U	0.028	U	0.027	U
Hexachlorocyclopentadiene	77-47-4	NS	NS	0.21	U	-	-	0.18	U	0.16	U	0.16	U	0.16	U	0.18	U	-	0.16	U	0.16	U	0.16	U	0.17	U	0.16	U	0.18	U	0.17	U
Hexachloroethane	67-72-1	NS	NS	0.037	U	-	-	0.033	U	0.028	U	0.3	U	0.03	U	0.032	U	-	0.03	U	0.029	U	0.029	U	0.03	U	0.03	U	0.032	U	0.03	U
Indeno(1,2,3-cd)Pyrene	193-39-5	0.5[c]	0.5[c]	0.066	J	-	-	0.069	J	0.25	-	0.25	-	0.41	-	0.36	-	-	0.66	-	0.16	-	5.8	-	0.076	J	0.52	-	0.028	J	0.17	-
Isophorone	78-59-1	NS	NS	0.026	U	-	-	0.023	U	0.024	U	0.024	U	0.024	U	0.026	U	-	0.024	U	0.023	U	0.023	U	0.024	U	0.024	U	0.025	U	0.024	U
Naphthalene	91-20-3	12	100[3]	0.039	U	-	-	0.025	U	0.031	J	0.17	J	0.058	J	0.072	J	-	0.22	-	0.031	J	0.78	-	0.022	U	0.096	J	0.024	U	0.03	J
Nitrobenzene	98-95-3	NS	15	0.034	U	-	-	0.03	U	0.026	U	0.027	U	0.027	U	0.029	U	-	0.027	U	0.027	U	0.026	U	0.027	U	0.027	U	0.029	U	0.028	U
N-Nitrosodimethylamine	62-75-9	NS	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Nitrosodi-n-propylamine	621-64-7	NS	NS	0.035	U	-	-	0.031	U	0.027	U	0.028	U	0.028	U	0.03	U	-	0.028	U	0.028	U	0.028	U	0.028	U	0.028	U	0.03	U	0.029	U
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	NS	NS	0.026	U	-	-	0.023	U	0.02	U	0.021	U	0.021	U	0.022	U	-	0.021	U	0.02	U	0.02	U	0.021	U	0.021	U	0.022	U	0.021	U
Pentachlorophenol	87-86-5	0.8[c]	6.7	0.05	U	-	-	0.045	U	0.038	U	0.04	U	0.04	U	0.043	U	-	0.04	U	0.04	U	0.039	U	0.04	U	0.04	U	0.043	U	0.041	U
Phenanthrene	85-01-8	100	100[3]	0.13	J	-	-	0.054	J	0.35	-	1.1	-	0.41	-	0.5	-	-	1.6	-	0.15	-	10	-	0.077	J	1.1	-	0.039	J	0.31	-
Phenol	108-95-2	0.33[3]	100[3]	0.034	U	-	-	0.031	U	0.026	U	0.028	U	0.028	U	0.03	U	-	0.028	U	0.027	U	0.027	U	0.028	U	0.028	U	0.029	U	0.028	U
Pyrene	129-00-0	100	100[3]	0.22	-	-	-	0.17	-	0.65	-	1	-	0.91	-	0.71	-	-	2	-	0.29	-	16	-	0.12	-	1.6	-	0.07	J	0.48	-
Pyridine	110-86-1	NS	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Method: 6010C- Metals (ICP) - (mg/kg)																					
Aluminum, Total	7429-90-5	NS	NS	-	-	-	-	-	10,700	-	4,880	-	10,700	-	4,900	-	-	7,440	-	11,400	-	8,250	-	-	5,680	-	7,720	-	11,600	-
Antimony, Total	7440-36-0	NS	NS	-	-	-	-	-	0.322	U	0.835	J	1.46	J	9.27	-	-	5.49	-	0.315	U	1.18	J	-	4.29	-	9.20	-	0.322	U
Arsenic, Total	7440-38-2	13[c]	16[c]	16.9	-	22.1	-	7.99	3.68	-	1.77	-	5.94	-	4.92	-	21.3	-	1.01	10.2	-	2.84	-	7.84	-	-	7.99	-	2.67	-	2.38	-
Barium, Total	7440-39-3	350[c]	400	14.2	-	-	-	-	86.7	-	83.4	-	185	-	275	-	-	217	-	85.4	-	121	-	-	300	-	54.0	-	113	-
Beryllium, Total	7440-41-7	7.2	72	-	-	-	-	-	0.279	J	0.231	J	0.410	J	0.373	J	-	0.29	J	0.315	J	0.288	J	-	0.22	J	0.309	J	0.558	-
Cadmium, Total	7440-43-9	2.5[c]	4.3	-	-	-	-	-	0.083	U	0.240	J	0.837	J	3.40	-	-	0.932	-	0.091	U	0.524	J	-	0.881	-	0.089	U	0.083	U
Calcium, Total	7440-70-2	NS	NS	-	-	-	-	-	1,920	-	14,500	-	6,400	-	15,100	-	-	11,400	-	2,790	-	11,300	-	-	9,490	-	14,300	-	2,440	-
Chromium, Total	7440-47-3	30[c]	180[3]	-	-	-	-	-	24.3	-	13.4	-	24.9	-	49.1	-	-	25.4	-	24.3	-	16.0	-	-	13.3	-	15.3	-	21.9	-
Cobalt, Total	7440-48-4	NS	NS	-	-	-	-	-	9.65	-	5.81	-	9.68	-	7.63	-	-	11	-	12.1	-	8.08	-	-	4.76	-	7.14	-	13.1	-
Copper, Total	7440-50-8	50	270	5,470	-	16,300	-	18.1	21.8	-	28.9	-	44.6	-	81.7	-	103	-	-	133	-	28.2	-	109	-	-	137	-	17.4	-	28.0	-
Iron, Total	7439-89-6	NS	NS	-	-	-	-	-	19,200	-	12,200	-	19,800	-	28,200	-	-	39,000	-	20,800	-	26,300	-	-	24,100	-	12,600	-	18,100	-
Lead, Total	7439-92-1	63[c]	400	3,160	-	988	-	13.9	227	-	23.9	-	170	-	182	-	1,860	-	71.8	389	-	32.7	-	145	-	-	260	-	317	-	66.3	-
Magnesium	7439-95-4	NS	NS	-	-	-	-	-	-	-	3,580	-	6,740	-	3,710	-	4,060	-	-	4,350	-	3,820	-	3,480	-	-	4,450	-	4,600	-	5,410	-
Manganese, Total	7439-96-5	1,600[c]	2,000[3]	-	-	-	-	-	191	-	209	-	234	-	236	-	-	385	-	747	-	278	-	-	279	-	233	-	213	-
Nickel, Total	7440-02-0	30	310	-	-	-	-	-	13.5	-	13.1	-	22.4	-	43.1	-	-	23.9	-	15.5	-	26.1	-	-	13.7	-	11.7	-	24.1	-
Potassium, Total	7440-09-7	NS	NS	-	-	-	-	-	4,310	-	1,040	-	2,220	-	1,280	-	-	2,090	-	5,110	-	1,960	-	-	1,120	-	2,530	-	5,520	-
Selenium, Total	7782-49-2	3.9[c]	180	-	-	-	-	-	0.218	U	0.640	J	0.296	J	1.77	J	-	0.227	U	0.214	U	0.364	J	-	0.218	U	0.234	U	0.218	U
Silver, Total	7440-22-4	2	180	-	-	-	-	-	0.24	U	0.251	U	0.247	U	0.680	J	-	0.352	J	0.234	U	0.651	J	-	0.24	U	0.257	U	0.239	U
Sodium, Total	7440-23-5	NS	NS	-	-	-	-	-	228	-	201	-	150	J	334	-	-	288	-	249	-	320	-	-	120	J	109	J	142	J
Thallium, Total	7440-28-0	NS	NS	-	-	-	-	-	0.267	U	0.280	U	0.274	U	0.302	U	-	0.277	U	0.261	U	0.266	U	-	0.267	U	0.286	U	0.266	U
Vanadium, Total	7440-62-2	NS	NS	-	-	-	-	-	17.4	-	49.1	-	82.2	-	30	-	-	33.4	-	20.5	-	-	-	24.9	-	19.5	-	32.8	-
Zinc, Total	7440-66-6	109[c]	10,000[3]	-	-	-	-	-	65	-	160	-	375	-	1,250	-	-	360	-	83.2	-	207	-	-	285	-	49.1	-	75.1	-
Method: 7473B - Mercury (CVAA) - (mg/kg)																					
Mercury, Total	7439-97-6	0.18[c]	0.81[c]	0.428	-	-	-	0.057	U	0.078	-	0.530	-	0.826	-	0.784	-	-	0.924	-	0.045	U	0.143	-	-	0.341	-	0.247	-	0.046	U
Method: 8081B - Organochlorine Pesticides (GC) - (mg/kg)																					
4,4'-DDD	72-54-8	0.0033[3]	13	0.000772	U	-	-	0.000682	U	0.00195	-	-	-	-	-	-	-	-	0.00478	-	-	-	-	-	0.00231	-	-	-	-	-
4,4'-DDE	72-55-9	0.0033[3]	8.9	0.0005	U	-	-	0.000442	U	0.000385	U	-	-	-	-	-	-	-	0.00318	JP	-	-	-	-	0.00228	JP	-	-	-	-
4,4'-DDT	50-29-3	0.0033[3]	7.9	0.00174	U	-	-	0.00154	U	0.00305	J	-	-	-	-	-	-	-	0.00142	U	-	-	-	-	0.0074	JP	-	-	-	-
Aldrin	309-00-2	0.005[c]	0.097	0.000762	U	-	-	0.000673	U	0.000586	U	-	-	-	-	-	-	-	0.000625	U	-	-	-	-	0.000596	U	-	-	-	-
Alpha-BHC	319-84-6	0.02	0.48	0.000256	U	-	-	0.000226	U	0.000197	U	-	-	-	-	-	-	-	0.00021	U	-	-	-	-	0.0002	U	-	-	-	-
Alpha-Chlordane	5103-71-9	0.094	4.2	0.000714	U	-	-	0.000666	U	0.000699	J	-	-	-	-	-	-	-	0.00108	J	-	-	-	-	0.00059	U	-	-	-	-
Beta-BHC	319-85-7	0.036	0.36	0.00082	U	-	-	0.000724	U	0.000631	U	-	-	-	-	-	-	-	0.000671	U	-	-	-	-	0.000642	U	-	-	-	-
Chlordane, total	57-74-9	NS	NS	0.00717	U	-	-	0.00633	U	0.00551	U	-	-	-	-	-	-	-	0.00586	U	-	-	-	-	0.00561	U	-	-	-	-
Delta-BHC	319-86-8	0.04	100[3]	0.000424	U	-	-	0.000374	U	0.000326	U	-	-	-	-	-	-	-	0.000347	U	-	-	-	-	0.000331	U	-	-	-	-
Dieldrin	60-57-1	0.005[c]	0.2	0.000676	U	-	-	0.000597	U	0.00177	-	-	-	-	-	-	-	-	0.000553	U	-	-	-	-	0.00172	JP	-	-	-	-
Endrin	72-20-8	0.014	11	0.00037	U	-	-	0.000326	U	0.000284	U	-	-	-	-	-	-	-	0.000302	U	-	-	-	-	0.000289	U	-	-	-	-
Endrin aldehyde	7421-93-4	NS	NS	0.000947	U	-	-	0.000836	U	0.000728	U	-	-	-	-	-	-	-	0.000774	U	-	-	-	-	0.00074	U	-	-	-	-
Endrin Ketone	53494-70-5	NS	NS	0.000557	U	-	-	0.000492	U	0.000428	U	-	-	-	-	-	-	-	0.000456	U	-	-	-	-	0.000436	U	-	-	-	-
gamma-BHC (Lindane)	58-89-9	0.1	1.3	0.000403	U	-	-	0.000356	U	0.00031	U	-	-	-	-	-	-	-	0.00033	U	-	-	-	-	0.000315	U	-	-	-	-
gamma-Chlordane	5566-34-7	NS	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	76-44-8	0.042	2.1	0.000485	U	-	-	0.000428	U	0.000373	U	-	-	-	-	-	-	-	0.000397	U	-	-	-	-	0.000379	U	-	-	-	-
Heptachlor epoxide	1024

Table 3
Groundwater Analytical Summary Tables for Volatile Organic Compounds

Client Sample ID: Sampling Date: Laboratory ID:	CAS No.	NYS AWQS & GVs June 1998 [1]	MW003 5/10/2019 19E0591-33		DUPE003 5/10/2019 19E0591-37		MW004 5/10/2019 19E0591-34	
Method: 8260 C - Volatile Organic Compounds - (µg/L)								
1,1,1,2-Tetrachloroethane	630-20-6	5*	0.200	U	0.200	U	0.200	U
1,1,1-Trichloroethane	71-55-6	5*	0.200	U	0.200	U	0.200	U
1,1,2,2-Tetrachloroethane	79-34-5	5*	0.200	U	0.200	U	0.200	U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5*	0.200	U	0.200	U	0.200	U
1,1,2-Trichloroethane	79-00-5	1	0.200	U	0.200	U	0.200	U
1,1-Dichloroethane	75-34-3	5*	0.200	U	0.200	U	0.200	U
1,1-Dichloroethene	75-35-4	5*	0.200	U	0.200	U	0.200	U
1,1-Dichloropropylene	563-58-6	5*	0.200	U	0.200	U	0.200	U
1,2,3-Trichlorobenzene	87-61-6	5*	0.200	U	0.200	U	0.200	U
1,2,3-Trichloropropane	96-18-4	0.04	0.200	U	0.200	U	0.200	U
1,2,4-Trichlorobenzene	120-82-1	5*	0.200	U	0.200	U	0.200	U
1,2,4-Trimethylbenzene	95-63-6	5*	0.200	U	0.200	U	0.200	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	0.200	U	0.200	U	0.200	U
1,2-Dibromoethane	106-93-4	0.0006	0.200	U	0.200	U	0.200	U
1,2-Dichlorobenzene	95-50-1	3**	0.200	U	0.200	U	0.200	U
1,2-Dichloroethane	107-06-2	0.6	0.200	U	0.200	U	0.200	U
1,2-Dichloropropane	78-87-5	1	0.200	U	0.200	U	0.200	U
1,3,5-Trimethylbenzene	108-67-8	5*	0.200	U	0.200	U	0.200	U
1,3-Dichlorobenzene	541-73-1	3**	0.200	U	0.200	U	0.200	U
1,3-Dichloropropane	142-28-9	5*	0.200	U	0.200	U	0.200	U
1,4-Dichlorobenzene	106-46-7	3**	0.200	U	0.200	U	0.200	U
1,4-Dioxane	123-91-1	NS	40.0	U	40.0	U	40.0	U
2,2-Dichloropropane	594-20-7	5*	0.200	U	0.200	U	0.200	U
2-Butanone	78-93-3	50	0.200	U	0.200	U	0.200	U
2-Chlorotoluene	95-49-8	5*	0.200	U	0.200	U	0.200	U
2-Hexanone	591-78-6	50	0.200	U	0.200	U	0.200	U
4-Chlorotoluene	106-43-4	5*	0.200	U	0.200	U	0.200	U
4-Methyl-2-pentanone	108-10-1	NS	0.200	U	0.200	U	0.200	U
Acetone	67-64-1	50	1.00	U	1.000	U	1.80	J
Acrolein	107-02-8	5*	0.200	U	0.200	U	0.200	U
Acrylonitrile	107-13-1	5*	0.200	U	0.200	U	0.200	U
Benzene	71-43-2	1	0.200	U	0.200	U	0.200	U
Bromobenzene	108-86-1	5*	0.200	U	0.200	U	0.200	U
Bromochloromethane	74-97-5	5*	0.200	U	0.200	U	0.200	U
Bromodichloromethane	75-27-4	50	0.200	U	0.200	U	0.200	U
Bromoform	75-25-2	50	0.200	U	0.200	U	0.200	U
Bromomethane	74-83-9	5*	0.200	U	0.200	U	0.200	U
Carbon Disulfide	75-15-0	60	0.200	U	0.200	U	0.450	J
Carbon Tetrachloride	56-23-5	5	0.200	U	0.200	U	0.200	U
Chlorobenzene	108-90-7	5*	0.200	U	0.200	U	0.200	U
Chloroethane	75-00-3	5*	0.200	U	0.200	U	0.200	U
Chloroform	67-66-3	7	0.200	U	0.200	U	0.200	U
Chloromethane	74-87-3	5*	0.200	U	0.200	U	0.200	U
cis-1,2-Dichloroethylene	156-59-2	5*	0.200	U	0.200	U	0.200	U
cis-1,3-Dichloropropylene	10061-01-5	0.4***	0.200	U	0.200	U	0.200	U
Cyclohexane	110-82-7	NS	0.200	U	0.200	U	0.200	U
Dibromochloromethane	124-48-1	50	0.200	U	0.200	U	0.200	U
Dibromomethane	74-95-3	5*	0.200	U	0.200	U	0.200	U
Dichlorodifluoromethane	75-71-8	5*	0.200	U	0.200	U	0.200	U
Ethyl Benzene	100-41-4	5*	0.200	U	0.200	U	0.200	U
Hexachlorobutadiene	87-68-3	0.5	0.200	U	0.200	U	0.200	U
Isopropylbenzene	98-82-8	5*	0.200	U	0.200	U	10.6	
Methyl acetate	79-20-9	NS	0.200	U	0.200	U	0.200	U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	0.200	U	0.200	U	0.200	U
Methylcyclohexane	108-87-2	NS	0.200	U	0.200	U	0.260	J
Methylene chloride	75-09-2	5*	1.00	U	1.000	U	1.00	U
n-Butylbenzene	104-51-8	5*	0.200	U	0.200	U	1.64	
N-Propylbenzene	103-65-1	5*	0.200	U	0.200	U	16.4	
o-Xylene	95-47-6	5*	0.200	U	0.200	U	0.200	U
p- & m- Xylenes	179601-23-1	5*	0.500	U	0.500	U	0.500	U
p-Isopropyltoluene	99-87-6	5*	0.200	U	0.200	U	0.200	U
sec-Butylbenzene	135-98-8	5*	0.200	U	0.200	U	5.96	
Styrene	100-42-5	5*	0.200	U	0.200	U	0.200	U
tert-Butyl alcohol (TBA)	75-65-0	NS	0.200	U	0.500	U	0.200	U
tert-Butylbenzene	98-06-6	5*	0.200	U	0.200	U	1.91	
Tetrachloroethene	127-18-4	5*	0.200	U	0.200	U	0.200	U
Toluene	108-88-3	5*	0.200	U	0.200	U	0.200	U
trans-1,2-Dichloroethylene	156-60-5	5*	0.200	U	0.200	U	0.200	U
trans-1,3-Dichloropropylene	10061-02-6	0.4***	0.200	U	0.200	U	0.200	U
Trichloroethene	79-01-6	5*	0.200	U	0.200	U	0.200	U
Trichlorofluoromethane	75-69-4	5*	0.200	U	0.200	U	0.200	U
Vinyl acetate	108-05-4	NS	0.200	U	0.200	U	0.200	U
Vinyl Chloride	75-01-4	2	0.200	U	0.200	U	0.200	U
Xylenes, Tital	1330-20-7	5*	0.600	U	0.600	U	0.600	U

Notes:
(1) NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1) - Ambient Water Quality Standards and Guidance Values - GA Water Class, Type H(WS) - Source of Drinking Water (Groundwater)
* The principal organic contaminant standard for groundwater of 5µg/L applies to this substance.
** - Applies to the sum of 1,2-, 1,3- and 1,4-xylene
*** - Applies to the sum of cis- and trans-1,3-dichloropropylene.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U - Indicates the analyte was analyzed for but not detected.
Highlighted text denotes concentrations exceeding NYSDEC AWQS or GV for GA Water Class, Type H(WS)

Table 4
Groundwater Analytical Summary Tables for Semivolatile Organic Compounds

Client Sample ID: Sampling Date: Laboratory ID:	CAS No.	NYS AWQS & GVs June 1998 [1]	MW003 5/10/2019 19E0591-33	DUPE003 5/10/2019 19E0591-37	MW004 5/10/2019 19E0591-34
Method: 8270 D - Semivolatile Organic Compounds - (µg/L)					
1,1-Biphenyl	92-52-4	5*	2.78 U	2.70 U	2.78 U
1,2,4,5-Tetrachlorobenzene	95-94-3	5*	2.78 U	2.70 U	2.78 U
1,2,4-Trichlorobenzene	120-82-1	5*	2.78 U	2.70 U	2.78 U
1,2-Dichlorobenzene	95-50-1	3	2.78 U	2.70 U	2.78 U
1,2-Diphenylhydrazine	122-66-7	ND	2.78 U	2.70 U	2.78 U
1,3-Dichlorobenzene	541-73-1	3	2.78 U	2.70 U	2.78 U
1,4-Dichlorobenzene	106-46-7	3	2.78 U	2.70 U	2.78 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	2.78 U	2.70 U	2.78 U
2,4,5-Trichlorophenol	95-95-4	NS	2.78 U	2.70 U	2.78 U
2,4,6-Trichlorophenol	88-06-2	NS	2.78 U	2.70 U	2.78 U
2,4-Dichlorophenol	120-83-2	5*	2.78 U	2.70 U	2.78 U
2,4-Dimethylphenol	105-67-9	50	2.78 U	2.70 U	2.78 U
2,4-Dinitrophenol	51-28-5	10	2.78 U	2.70 U	2.78 U
2,4-Dinitrotoluene	121-14-2	5*	2.78 U	2.70 U	2.78 U
2,6-Dinitrotoluene	606-20-2	5*	2.78 U	2.70 U	2.78 U
2-Chloronaphthalene	91-58-7	10	2.78 U	2.70 U	2.78 U
2-Chlorophenol	95-57-8	NS	2.78 U	2.70 U	2.78 U
2-Methylnaphthalene	91-57-6	NS	2.78 U	2.70 U	2.78 U
2-Methylphenol	95-48-7	NS	2.78 U	2.70 U	2.78 U
2-Nitroaniline	88-74-4	5*	2.78 U	2.70 U	2.78 U
2-Nitrophenol	88-75-5	NS	2.78 U	2.70 U	2.78 U
3- & 4-Methylphenols	65794-96-9	NS	2.78 U	2.70 U	2.78 U
3,3-Dichlorobenzidine	91-94-1	5*	2.78 U	2.70 U	2.78 U
3-Nitroaniline	99-09-2	5*	2.78 U	2.70 U	2.78 U
4,6-Dinitro-2-methylphenol	534-52-1	NS	2.78 U	2.70 U	2.78 U
4-Bromophenyl phenyl ether	101-55-3	NS	2.78 U	2.70 U	2.78 U
4-Chloro-3-methylphenol	59-50-7	NS	2.78 U	2.70 U	2.78 U
4-Chloroaniline	106-47-8	5*	2.78 U	2.70 U	2.78 U
4-Chlorophenyl phenyl ether	7005-72-3	NS	2.78 U	2.70 U	2.78 U
4-Nitroaniline	100-01-6	5*	2.78 U	2.70 U	2.78 U
4-Nitrophenol	100-02-7	NS	5.56 U	5.41 U	5.56 U
Acenaphthene	83-32-9	20	0.0556 U	0.0541 U	0.0556 U
Acenaphthylene	208-96-8	NS	0.0556 U	0.0541 U	0.0556 U
Acetophenone	98-86-2	NS	2.78 U	2.70 U	2.78 U
Aniline	62-53-3	5*	2.78 U	2.70 U	2.78 U
Anthracene	120-12-7	50	0.0556 U	0.0541 U	0.0889
Atrazine	1912-24-9	7.5	0.556 U	0.541 U	0.556 U
Benzaldehyde	100-52-7	NS	2.78 U	2.70 U	2.78 U
Benzidine	92-87-5	5*	5.56 U	5.41 U	5.56 U
Benzoic acid	65-85-0	NS	27.8 U	27.0 U	27.8 U
Benzyl alcohol	100-51-6	NS	2.78 U	2.70 U	2.78 U
Benzo(a)anthracene	56-55-3	0.002	0.100	0.0541 U	0.0556 U
Benzo(a)pyrene	50-32-8	ND	0.122	0.0541 U	0.0556 U
Benzo(b)fluoranthene	205-99-2	0.002	0.122	0.0541 U	0.0556 U
Benzo(ghi)perylene	191-24-2	NS	0.100	0.0541 U	0.0556 U
Benzo(k)fluoranthene	207-08-9	0.002	0.0889	0.0541 U	0.0556 U
Benzyl butyl phthalate	85-68-7	50	2.78 U	2.70 U	2.78 U
Bis(2-chloroethoxy)methane	111-91-1	5*	2.78 U	2.70 U	2.78 U
Bis(2-chloroethyl)ether	111-44-4	1.0	1.11 U	1.08 U	1.11 U
Bis(2-ethylhexyl)phthalate	117-81-7	5	0.556 U	0.541 U	0.556 U
Bis(2-chloroisopropyl)ether	108-60-1	5*	2.78 U	2.70 U	2.78 U
Caprolactam	105-60-2	NS	2.78 U	2.70 U	2.78 U
Carbazole	86-74-8	NS	2.78 U	2.70 U	2.78 U
Chrysene	218-01-9	0.002	0.0778	0.0541 U	0.0556 U
Dibenzo(a,h)anthracene	53-70-3	NS	0.0556	0.0541 U	0.0556 U
Dibenzofuran	132-64-9	NS	2.78 U	2.70 U	2.78 U
Diethyl phthalate	84-66-2	50	2.78 U	2.70 U	2.78 U
Dimethyl phthalate	131-11-3	50	2.78 U	2.70 U	2.78 U
Di-n-butyl phthalate	84-74-2	50	2.78 U	2.70 U	2.78 U
Di-n-octyl phthalate	117-84-0	50	2.78 U	2.70 U	2.78 U
Fluoranthene	206-44-0	50	0.167	0.0541 U	0.0778
Fluorene	86-73-7	50	0.0556 U	0.0541 U	0.0778
Hexachlorobenzene	118-74-1	0.04	0.0222 U	0.0216 U	0.0222 U
Hexachlorobutadiene	87-68-3	0.5	0.556 U	0.541 U	0.556 U
Hexachlorocyclopentadiene	77-47-4	5*	5.56 U	5.41 U	5.56 U
Hexachloroethane	67-72-1	5*	0.556 U	0.541 U	0.556 U
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	0.0778	0.0541 U	0.0556 U
Isophorone	78-59-1	50	2.78 U	2.70 U	2.78 U
Naphthalene	91-20-3	10	0.0556 U	0.0541 U	0.811
Nitrobenzene	98-95-3	0.4	0.278 U	0.270 U	0.278 U
N-nitrosodi-n-propylamine	621-64-7	NS	2.78 U	2.70 U	2.78 U
N-Nitrosodiphenylamine	86-30-6	50	2.78 U	2.70 U	2.78 U
N-Nitrosodimethylamine	62-75-9	NS	0.556 U	0.541 U	0.556 U
Pentachlorophenol	87-86-5	1	0.278 U	0.270 U	0.278 U
Phenanthrene	85-01-8	50	0.122	0.0541 U	0.300
Phenol	108-95-2	1	2.78 U	2.70 U	4.72 J
Pyrene	129-00-0	50	0.144	0.0541 U	0.0778
Pyridine	110-86-1	50	2.78 U	2.70 U	2.78 U

Notes:
(1) NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1) - Ambient Water Quality Standards and Guidance Values - GA Water Class, Type H(WS) - Source of Drinking Water (Groundwater)
* The principal organic contaminant standard for groundwater of 5µg/L applies to this substance.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U - Indicates the analyte was analyzed for but not detected.
Highlighted text denotes concentrations exceeding NYSDEC AWQS or GV for GA Water Class, Type H(WS)

Table 5
Groundwater Analytical Data Summary
Metals (Total and Dissolved)

Client Sample ID: Sampling Date: Laboratory ID:	CAS No.	NYS AWQS & GVs June 1998 (1)	MW003 5/10/2019 19E0591-33		DUPE003 5/10/2019 19E0591-37		MW004 5/10/2019 19E0591-34	
			Total	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**
Method: 6010 D - Metals - (µg/L)								
Aluminum	7429-90-5	NS	536	55.6 U	492	72.8	17,800	82.2
Antimony	7440-36-0	3	1.38	11.1 U	1.34	11.1 U	1.25	11.1 U
Arsenic	7440-38-2	25	4.26	11.1 U	3.97	11.1 U	16.4	20.3
Barium	7440-39-3	1,000	39.5	34.6	40	35.0	271	93.7
Beryllium	7440-41-7	3	0.333 U	3.33 U	0.333 U	3.33 U	0.333 U	3.33 U
Cadmium	7440-43-9	5	0.556 U	5.56 U	0.556 U	5.56 U	2.31	5.56 U
Calcium	7440-70-2	NS	80,600	77,500	81,200	77,900	202,000	103,000
Chromium	7440-47-3	50	5.56 U	5.56 U	5.56 U	5.56 U	34.8	5.56 U
Cobalt	7440-48-4	NS	4.44 U	4.44 U	4.44 U	4.44 U	17	4.44 U
Copper	7440-50-8	200	22.2 U	22.2 U	22.2 U	22.2 U	398	22.2 U
Iron	7439-89-6	300	822	278 U	773	278 U	20,300	278 U
Lead	7439-92-1	25	5.56 U	5.56 U	5.56 U	5.56 U	203	5.56 U
Magnesium	7439-92-1	35,000	94,700	88,100	95,700	88,200	110,000	75,900
Manganese	7439-96-5	300	48.1	20.2	50	20.4	610	30.8
Nickel	7440-02-0	100	11.1 U	11.1 U	11.1 U	11.1 U	29.5	11.1 U
Potassium	7440-09-7	NS	33,700	31,200	34,200	31,300	80,900	70,600
Selenium	7782-49-2	10	32.4	11.1 U	27.5	11.1 U	56.4	12.7
Silver	7440-22-4	50	5.56 U	5.56 U	5.56 U	5.56 U	5.56 U	5.56 U
Sodium	7440-23-5	20,000	905,000	847,000	933,000	857,000	1,630,000	1,260,000
Thallium	7440-23-5	0.5	1.11 U	11.1 U	1.11 U	11.1 U	1.11 U	11.1 U
Vanadium	7440-62-2	NS	11.1 U	11.1 U	11.1 U	11.1 U	47.9	20.2
Zinc	7440-66-6	2,000	29.4	27.8 U	27.9	27.8 U	933	27.8 U
Method: 7473 - Mercury - (µg/L)								
Mercury	7439-97-6	0.7	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

Notes:
(1) NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1) - Ambient Water Quality Standards and Guidance Values - GA Water Class, Type H(WS) - Source of Drinking Water (Groundwater)
NS - No Standard
U - The analyte was analyzed for, but was not detected above the reported sample quantification limit.
J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
Highlighted text denotes concentrations exceeding NYSDEC AWQS or GV for GA Water Class, Type H(WS)

Table 6
Groundwater Analytical Data Summary
Pesticides
EPA Method 8081 PCBs EPA Method 8082

Client Sample ID: Sampling Date: Laboratory ID:	CAS No.	NYS AWQS & GVs June 1998 (1)	MW003 5/10/2019 19E0591-33	DUPE003 5/10/2019 19E0591-37	MW004 5/10/2019 19E0591-34
Method: 8081 B - Pesticides - (µg/L)					
4,4'-DDD	72-54-8	0.3	0.00432 U	0.00444 U	0.00432 U
4,4'-DDE	72-55-9	0.2	0.00432 U	0.00444 U	0.00432 U
4,4'-DDT	50-29-3	0.2	0.00432 U	0.00444 U	0.00432 U
Aldrin	309-00-2	ND	0.00432 U	0.00444 U	0.00432 U
Alpha-BHC	319-84-6	0.01	0.00432 U	0.00444 U	0.00432 U
Alpha-Chlordane	5103-71-9	NS	0.00432 U	0.00444 U	0.00432 U
Beta-BHC	319-85-7	0.04	0.00432 U	0.00444 U	0.00432 U
Delta-BHC	319-86-8	0.04	0.00432 U	0.00444 U	0.00432 U
Dieldrin	60-57-1	0.004	0.00432 U	0.00222 U	0.00432 U
Endosulfan I	959-98-8	NS	0.00432 U	0.00444 U	0.00432 U
Endosulfan II	33213-65-9	NS	0.00432 U	0.00444 U	0.00432 U
Endosulfan sulfate	1031-07-8	NS	0.00432 U	0.00444 U	0.00432 U
Endrin	72-20-8	ND	0.00432 U	0.00444 U	0.00432 U
Endrin aldehyde	7421-93-4	5*	0.0108 U	0.0111 U	0.0108 U
Endrin ketone	53494-70-5	5*	0.0108 U	0.0111 U	0.0108 U
gamma-BHC (Lindane)	58-89-9	0.05	0.00432 U	0.00444 U	0.00432 U
gamma-Chlordane	5566-34-7	NS	0.0108 U	0.0111 U	0.0108 U
Heptachlor	76-44-8	0.04	0.00432 U	0.00444 U	0.00432 U
Heptachlor epoxide	1024-57-3	0.03	0.00432 U	0.00444 U	0.00432 U
Methoxychlor	72-43-5	35	0.00432 U	0.00444 U	0.00432 U
Toxaphene	8001-35-2	0.06	0.108 U	0.111 U	0.108 U
total Chlordane	57-74-9	0.05	0.216 U	0.222 U	0.216 U
Method: 8082 A - PCBs - (µg/L)					
Aroclor 1016	12674-11-2	0.09	0.0541 U	0.0556 U	0.0541 U
Aroclor 1221	11104-28-2	0.09	0.0541 U	0.0556 U	0.0541 U
Aroclor 1232	11141-16-5	0.09	0.0541 U	0.0556 U	0.0541 U
Aroclor 1242	53469-21-9	0.09	0.0541 U	0.0556 U	0.0541 U
Aroclor 1248	12672-29-6	0.09	0.0541 U	0.0556 U	0.0541 U
Aroclor 1254	11097-69-1	0.09	0.0541 U	0.0556 U	0.0541 U
Aroclor 1260	11096-82-5	0.09	0.0541 U	0.0556 U	0.0541 U

Notes:
(1) NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1) - Ambient Water Quality Standards and Guidance Values - GA Water Class, Type H(WS) - Source of Drinking Water (Groundwater)
* The principal organic contaminant standard for groundwater of 5µg/L applies to this substance.
NS - No Standard
U - The analyte was analyzed for, but was not detected above the reported sample quantification limit.
J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
Highlighted text denotes concentrations exceeding NYSDEC AWQS or GV for GA Water Class, Type H(WS)

Table 7

Soil-Vapor Sample Analytical Results - Volatile Organic Compounds

Client Sample ID: Laboratory ID: Sampling Date:	Cas No.	SV002 19E0578-02 5/10/2019	
Volatile Organic Compounds by TO-15 ug/m3			
1,1,1,2-Tetrachloroethane	630-20-6	2.1	U
1,1,1-Trichloroethane	71-55-6	1.7	U
1,1,2,2-Tetrachloroethane	79-34-5	2.1	U
1,1,2-Trichlorotrifluoroethane	76-13-1	2.4	U
1,1,2-Trichloroethane	79-00-5	1.7	U
1,1-Dichloroethane	75-34-3	1.3	U
1,1-Dichloroethene	75-35-4	0.31	U
1,2,4-Trichlorobenzene	120-82-1	2.3	U
1,2,4-Trimethylbenzene	95-63-6	1.5	U
1,2-Dibromoethane	106-93-4	2.4	U
1,2-Dichlorobenzene	95-50-1	1.9	U
1,2-Dichloroethane	107-06-2	1.3	U
1,2-Dichloropropane	78-87-5	1.4	U
1,2-Dichlorotetrafluoroethane	76-14-2	22	
1,3,5-Trimethylbenzene	108-67-8	1.5	U
1,3-Butadiene	106-99-0	2.1	U
1,3-Dichlorobenzene	541-73-1	1.9	U
1,3-Dichloropropane	142-28-9	1.4	U
1,4-Dichlorobenzene	106-46-7	1.9	U
1,4-Dioxane	123-91-1	2.2	U
2-Butanone	78-93-3	120	
2-Hexanone	591-78-6	16	
3-Chloropropene	107-05-1	4.9	U
4-Methyl-2-pentanone	108-10-1	1.3	U
Acetone	67-64-1	67	
Acrylonitrile	107-13-1	0.68	U
Benzene	71-43-2	5.3	
Benzyl Chloride	100-44-7	1.6	U
Bromodichloromethane	75-27-4	2.1	U
Bromoform	75-25-2	3.2	U
Bromomethane	74-83-9	1.2	U
Carbon disulfide	75-15-0	4.1	
Carbon tetrachloride	56-23-5	0.49	U
Chlorobenzene	108-90-7	1.4	U
Chloroethane	75-00-3	0.82	U
Chloroform	67-66-3	1.5	U
Chloromethane	74-87-3	0.64	U
cis-1,2-Dichloroethylene	156-59-2	0.31	U
cis-1,3-Dichloropropene	10061-01-5	1.4	U
Cyclohexane	110-82-7	1.5	
Dibromochloromethane	124-48-1	2.7	U
Dichlorodifluoromethane	75-71-8	2.6	
Ethyl acetate	141-78-6	2.2	U
Ethylbenzene	100-41-4	1.4	U
Hexachlorobutadiene	87-68-3	3.3	U
Isopropyl Alcohol	67-63-0	4.5	
Methyl methacrylate	80-62-6	1.3	U
Methyl Tert Butyl Ether	1634-04-4	1.1	U
Methylene chloride	75-09-2	2.2	U
n-Heptane	142-82-5	1.5	
n-Hexane	110-54-3	1.8	
o-Xylene	95-47-6	1.4	U
p-&m-Xylenes	179601-23-1	2.7	U
p-Ethyltoluene	622-96-8	1.7	
Propylene	115-07-1	11	
Styrene	100-42-5	1.3	U
Tetrachloroethene	127-18-4	12	
Tetrahydrofuran	109-99-9	5.8	
Toluene	108-88-3	4.5	
trans-1,2-Dichloroethylene	156-60-5	1.2	U
trans-1,3-Dichloropropene	10061-02-6	1.4	U
Trichloroethene	79-01-6	0.42	U
Trichlorofluoromethane	75-69-4	2.3	
Vinyl acetate	108-05-4	1.1	U
Vinyl bromide	593-60-2	1.4	U
Vinyl chloride	75-01-4	0.20	U

Notes:

Carbon tetrachloride - Refer to Matrix A of NYSDOH Guidance for Evaluating Soil Vapor Intrusion in

1,1,1-Trichloroethane - Refer to Matrix B of NYSDOH Guidance for Evaluating Soil Vapor Intrusion in

Vinyl Chloride - Refer to Matrix C of NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the Sta

U - Indicates the analyte was analyzed for but not detected.

APPENDIX A
GEOPHYSICAL SURVEY

DELTA Geophysics Inc.

GEOPHYSICAL INVESTIGATION REPORT

SITE LOCATION:

355 and 399 Exterior Street
Bronx, New York

PREPARED FOR:

PW Grosser
630 Johnson Ave, Suite 7
Bohemia, New York

PREPARED BY:

Brian Halvorsen
Delta Geophysics Inc.
738 Front Street
Catasauqua, PA 18032

May 23rd, 2019

Delta Geophysics, Inc. (Delta) is pleased to provide the results of the geophysical survey conducted at 355 and 399 Exterior Street, Bronx, New York.

1.0 INTRODUCTION

On May 9th, 2019 Delta Geophysics personnel performed a limited geophysical investigation at 355 and 399 Exterior Street, Bronx, New York. The area of interest was all accessible areas of the properties around client proposed boring locations. The subject properties contained mostly unoccupied parking lots. Subsurface conditions were unknown at the time of survey. Surface conditions consisted of concrete and asphalt.

2.0 SCOPE OF WORK

The survey was conducted to clear client proposed boring locations and mark all detectable utilities around proposed boring locations.

3.0 METHODOLOGY

Selection of survey equipment is dependent site conditions and project objectives. For this project the technician utilized the following equipment to survey the area of concern:

- Geophysical Survey Systems Inc. SIR-3000 cart-mounted Ground Penetrating Radar (GPR) unit with a 400 Mhz antenna.
- Radiodetection RD7000 precision utility locator.
- Fisher M-Scope TW-6 pipe and cable locator.

Ground penetrating radar (commonly called GPR) is a geophysical method that has been developed over the past thirty years for shallow, high-resolution, subsurface investigations of the earth. GPR uses high frequency pulsed electromagnetic waves (generally 10 MHz to 1,000 MHz) to acquire subsurface information. Energy is propagated downward into the ground and is reflected back to the surface from boundaries at which there are electrical property contrasts. GPR is a method that is commonly used for environmental, engineering, archeological, and other shallow investigations.

The GSSI SIR-3000 GPR can accept a wide variety of antennas which provide various depths of penetration and levels of resolution. The 400 MHz antenna can achieve depths of penetration up to about 20 feet, but this depth may be greatly reduced due to site-specific conditions. Signal penetration decreases with increased soil conductivity. Conductive materials attenuate or absorb the GPR signal. As depth increases the return signal becomes weaker. Penetration is the greatest in unsaturated sands and fine gravels. Clayey, highly saline or saturated soils, areas covered by steel reinforced concrete, foundry slag, of other highly conductive materials significantly reduces GPR depth of penetration.

The GPR was configured to transmit to a depth of approximately 10 feet below the subsurface, but actual signal penetration was limited to approximately 1-3 feet below ground surface (bgs). The limiting factor was signal attenuation from near surface soils.

The RD7000 precision utility locator uses radio emission to trace the location of metal bearing utilities. This radio emission can be active or passive. Active tracing requires the attachment of a

radio transmitter to the utility, passive tracing uses radio emissions that are present on the utility. Underground electrical utilities typically emit radio signals that this device can detect.

The TW-6 is designed to find pipes, cables and other metallic objects such as underground storage tanks. One surveyor can carry both the transmitter and receiver together, making it ideally suited for exploration type searches of ferrous metal masses. Metal detectors of this type operate by generating a magnetic field at the transmitter which causes metallic objects in the subsurface to generate a secondary magnetic field. The induced secondary field is detected by the receiver, which generates an audible tone equal to the strength of the secondary field.

4.0 SURVEY FINDINGS

All accessible areas throughout the survey location around client proposed boring locations were examined during this investigation. The proposed boring locations were examined with the RD7000 for potential subsurface utilities then surveyed with GPR and TW-6 for other potential anomalies. Based on the data gathered all borings were cleared for sampling.

Utility Survey

Delta performed a utility survey around client proposed boring locations. The following utilities were identified: electric. All utilities were marked onsite with appropriate colors.

5.0 SURVEY LIMITATIONS

GPR depth of penetration was limited to approximately 1-3 feet bgs. The limiting factor was due to conductive soils and reinforced concrete. The parking lot of 355 Exterior Street consisted of reinforced concrete, limiting use of TW-6 and effectiveness of GPR imaging.

6.0 WARRANTIES AND DISCLAIMER

As with any geophysical method, it must be stressed that caution be used during any excavation or intrusive testing in proximity to any anomalies indicated in this report. In addition, the absence of detected signatures does not preclude the possibility that targets may exist. To the extent the client desires more definitive conclusions than are warranted by the currently available facts; it is specifically Delta's intent that the conclusions stated herein will be intended as guidance.

This report is based upon the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations. Professional judgments expressed herein are based on the facts currently available within the limit or scope of work, budget and schedule. Delta represents that the services were performed in a manner consistent with currently accepted professional practices employed by geophysical/geological consultants under similar circumstances. No other representations to Client, express or implied, and no warranty or guarantee is included or intended in this agreement, or in any report, document, or otherwise.

This report was prepared pursuant to the contract Delta has with the Client. That contractual relationship included an exchange of information about the property that was unique and between Delta and its client and serves as the basis upon which this report was prepared. Because of the importance of the understandings between Delta and its client, reliance or any use of this report by anyone other than the Client, for whom it was prepared, is prohibited and therefore not foreseeable to Delta.

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APPENDIX B
SOIL BORING LOGS

PROJECT #:	LST1802		
SITE ADDRESS:	355-399 Exterior Street, Bronx, New York		
BORING ID:	SB007	BORING DEPTH (FT): 15	CORE LENGTH (FT): N/A
WELL ID:		BORING DIAMETER (IN): 2	WELL DIAMETER (IN): 2
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED: 05/10/2019	DATE FINISHED: 05/10/2019
DRILLING METHOD:	Direct Push	TIME STARTED: 12:30	TIME FINISHED: 12:45
DRILLING EQUIPMENT:	Geoprobe 6610	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Macrocore	PROJECT MANAGER: Dan Haug	LOGGED BY: Janelle Cooley

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–5			3	Brown, fine to medium SAND, some Gravel and Brick; dry and no odor.	0	0–8	
5–8			3.5				
8–10				Brown, fine to medium SAND, some Gravel and Brick; wet and no odor.	0		
10–13			4	Grey, fine SAND; wet and no odor.	0	8–15	
13–15				Grey, CLAY; wet no odor.	0		

▼ Water Table Symbol (8 ft)

PROJECT #:	LST1802		
SITE ADDRESS:	355-399 Exterior Street, Bronx, New York		
BORING ID:	SB008	BORING DEPTH (FT): 15	CORE LENGTH (FT): N/A
WELL ID:	MW003	BORING DIAMETER (IN): 2	WELL DIAMETER (IN): 2
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED: 05/09/2019	DATE FINISHED: 05/09/2019
DRILLING METHOD:	Direct Push	TIME STARTED: 13:30	TIME FINISHED: 13:45
DRILLING EQUIPMENT:	Geoprobe 6610	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Macrocore	PROJECT MANAGER: Dan Haug	LOGGED BY: Janelle Cooley

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–1				Aspahlt	0		
1–5			3	Dark Brown, fine to medium SAND, some Gravel, little brick; moist no odor.	0		
5–7			3.5	Light Brown, fine SAND and SILT; wet and no odor.	0		
7–15			1	Dark Brown to Orange Brown, medium to coarse SAND and GRAVEL; wet no odor.	0		

▼ Water Table Symbol (at depth 8)

PROJECT #:	LST1802		
SITE ADDRESS:	355-399 Exterior Street, Bronx, New York		
BORING ID:	SB009	BORING DEPTH (FT): 15	CORE LENGTH (FT): N/A
WELL ID:	MW004	BORING DIAMETER (IN): 2	WELL DIAMETER (IN): 2
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED: 05/09/2019	DATE FINISHED: 05/09/2019
DRILLING METHOD:	Direct Push	TIME STARTED: 12:15	TIME FINISHED: 12:45
DRILLING EQUIPMENT:	Geoprobe 6610	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Macrocore	PROJECT MANAGER: Dan Haug	LOGGED BY: Janelle Cooley

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–2			3	Aspahlt			
2–5				Dark Brown, fine to medium SAND, some Brick and little gravel; dry and no odor.	0		
5–10			3	Dark Brown, fine to medium SAND, some Brick and little gravel; dry and petroleum odor.	80.1	▼ 10	
10–13			4	Dark Grey, medium to coarse SAND, some Gravel; wet and petroleum odor.	131.2		
13–15				Dark Grey, CLAY; wet and no odor.	10.2		

PROJECT #:	LST1802		
SITE ADDRESS:	355-399 Exterior Street, Bronx, New York		
BORING ID:	SB009_E	BORING DEPTH (FT): 15	CORE LENGTH (FT): N/A
WELL ID:		BORING DIAMETER (IN): 2	WELL DIAMETER (IN): 2
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED: 05/09/2019	DATE FINISHED: 05/09/2019
DRILLING METHOD:	Direct Push	TIME STARTED: 14:20	TIME FINISHED: 14:35
DRILLING EQUIPMENT:	Geoprobe 6610	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Macrocore	PROJECT MANAGER: Dan Haug	LOGGED BY: Janelle Cooley

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–2			4	Aspahlt	0	0–2	
2–5				Dark Brown, fine to medium SAND, some Brick and little gravel; dry and no odor.	0	2–5	
5–8			4			5–8	
8–10				Dark Brown, fine to medium SAND, some Brick and little gravel; dry and petroleum odor.	72.1	8–10	
10–13			4	Dark Grey, medium to coarse SAND, some Gravel; wet and slight petroleum odor.	0	10–13	
13–15				Dark Grey, CLAY; wet and no odor.	0	13–15	

P.W. Grosser Consulting | **End of Boring Depth (feet):** 15 | **Water Table Symbol:** ▼ |

PROJECT #:	LST1802		
SITE ADDRESS:	355-399 Exterior Street, Bronx, New York		
BORING ID:	SB009_N	BORING DEPTH (FT): 15	CORE LENGTH (FT): N/A
WELL ID:		BORING DIAMETER (IN): 2	WELL DIAMETER (IN): 2
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED: 05/09/2019	DATE FINISHED: 05/09/2019
DRILLING METHOD:	Direct Push	TIME STARTED: 13:35	TIME FINISHED: 13:45
DRILLING EQUIPMENT:	Geoprobe 6610	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Macrocore	PROJECT MANAGER: Dan Haug	LOGGED BY: Janelle Cooley

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–2			3	Aspahlt	0	0–2	
2–10			4	Dark Brown, fine to medium SAND, some Brick and little gravel; dry and no odor.	0 / 0	2–10	
10–13			2.5	Dark Grey, medium to coarse SAND, some Gravel; wet and no odor.	0	10–13	
13–15				Dark Grey, CLAY; wet and no odor.	0	13–15	

PROJECT #:	LST1802		
SITE ADDRESS:	355-399 Exterior Street, Bronx, New York		
BORING ID:	SB009_W	BORING DEPTH (FT): 15	CORE LENGTH (FT): N/A
WELL ID:		BORING DIAMETER (IN): 2	WELL DIAMETER (IN): 2
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED: 05/09/2019	DATE FINISHED: 05/09/2019
DRILLING METHOD:	Direct Push	TIME STARTED: 13:50	TIME FINISHED: 14:00
DRILLING EQUIPMENT:	Geoprobe 6610	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Macrocore	PROJECT MANAGER: Dan Haug	LOGGED BY: Janelle Cooley

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–2			3	Aspahlt	0	0–2	
2–5				Dark Brown, fine to medium SAND, some Brick and little gravel; dry and no odor.	0	2–5	
5–8			4			5–8	
8–10				Dark Brown, fine to medium SAND, some Brick and little gravel; dry and petroleum odor.	49.8	8–10	
10–13			3	Dark Grey, medium to coarse SAND, some Gravel; wet and slight petroleum odor.	0	10–13	
13–15				Dark Grey, CLAY; wet and no odor.	0	13–15	

P.W. Grosser Consulting | **End of Boring Depth (feet):** 15 | **Water Table Symbol:** ▼ |

PROJECT #:	LST1802		
SITE ADDRESS:	355-399 Exterior Street, Bronx, New York		
BORING ID:	SB009_W2	BORING DEPTH (FT): 15	CORE LENGTH (FT): N/A
WELL ID:		BORING DIAMETER (IN): 2	WELL DIAMETER (IN): 2
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED: 05/09/2019	DATE FINISHED: 05/09/2019
DRILLING METHOD:	Direct Push	TIME STARTED: 14:05	TIME FINISHED: 14:15
DRILLING EQUIPMENT:	Geoprobe 6610	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Macrocore	PROJECT MANAGER: Dan Haug	LOGGED BY: Janelle Cooley

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–2			2.5	Aspahlt	0	0–2	
2–10			4.5	Dark Brown, fine to medium SAND, some Brick and little gravel; dry and no odor.	0 / 0	2–10	
10–13			4	Dark Grey, medium to coarse SAND, some Gravel; wet and no odor.	0	10–13	
13–15				Dark Grey, CLAY; wet and no odor.	0	13–15	

P.W. Grosser Consulting | **End of Boring Depth (feet):** 15 | **Water Table Symbol:** ▼ | Page 1 of 1

PROJECT #:	LST1802		
SITE ADDRESS:	355-399 Exterior Street, Bronx, New York		
BORING ID:	SB010	BORING DEPTH (FT): 15	CORE LENGTH (FT): N/A
WELL ID:		BORING DIAMETER (IN): 2	WELL DIAMETER (IN): 2
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED: 05/10/2019	DATE FINISHED: 05/10/2019
DRILLING METHOD:	Direct Push	TIME STARTED: 13:00	TIME FINISHED: 13:30
DRILLING EQUIPMENT:	Geoprobe 6610	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Macrocore	PROJECT MANAGER: Dan Haug	LOGGED BY: Janelle Cooley

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–4			2.5	Dark Brown to Dark Grey, fine to medium SAND, some Gravel, little brick; dry and no odor.	0	0–8	
5–8			3	Dark Brown to Dark Grey, fine to medium SAND, some Gravel, little brick; wet and no odor.	0		
10–15			2.5	Dark Brown to Dark Grey, fine to medium SAND and some Gravel; wet and no odor.	0	10–15	

▼ Water Table Symbol

P.W. Grosser Consulting	**End of Boring Depth (feet):** 15	**Water Table Symbol:** ▼	Page 1 of 1

PROJECT #:	LST1802		
SITE ADDRESS:	355-399 Exterior Street, Bronx, New York		
BORING ID:	SB016	BORING DEPTH (FT): 12	CORE LENGTH (FT): N/A
WELL ID:		BORING DIAMETER (IN): 2	WELL DIAMETER (IN): 2
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED: 06/06/2019	DATE FINISHED: 06/06/2019
DRILLING METHOD:	Direct Push	TIME STARTED: 13:00	TIME FINISHED: 13:30
DRILLING EQUIPMENT:	Geoprobe 6610	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Macrocore	PROJECT MANAGER: Dan Haug	LOGGED BY: Janelle Cooley

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–8			3	Brown, fine to medium SAND, some Gravel and Brick; dry and no odor.	0	0–8	
8–9			4	Dark Grey, fine SAND, some medium Sand; wet and petroleum odor.	2.6	8–9	
9–11			2	Grey, CLAY; wet and petroleum odor.	1.4	9–11	

▼ Water Table Symbol (at 8 feet)

P.W. Grosser Consulting	**End of Boring Depth (feet):** 12	**Water Table Symbol:** ▼	Page 1 of 1

PROJECT #:	LST1802		
SITE ADDRESS:	355-399 Exterior Street, Bronx, New York		
BORING ID:	SB017	BORING DEPTH (FT): 10	CORE LENGTH (FT): N/A
WELL ID:		BORING DIAMETER (IN): 2	WELL DIAMETER (IN): 2
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED: 06/06/2019	DATE FINISHED: 06/06/2019
DRILLING METHOD:	Direct Push	TIME STARTED: 14:00	TIME FINISHED: 14:30
DRILLING EQUIPMENT:	Geoprobe 6610	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Macrocore	PROJECT MANAGER: Dan Haug	LOGGED BY: Janelle Cooley

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–10	6–8		1	Dark Brown to Dark Grey, fine to medium SAND, some Gravel, little brick; dry and no odor.	0	0–10	
			1.5				

P.W. Grosser Consulting | **End of Boring Depth (feet):** 10 | **Water Table Symbol:** ▼ | Page 1 of 1

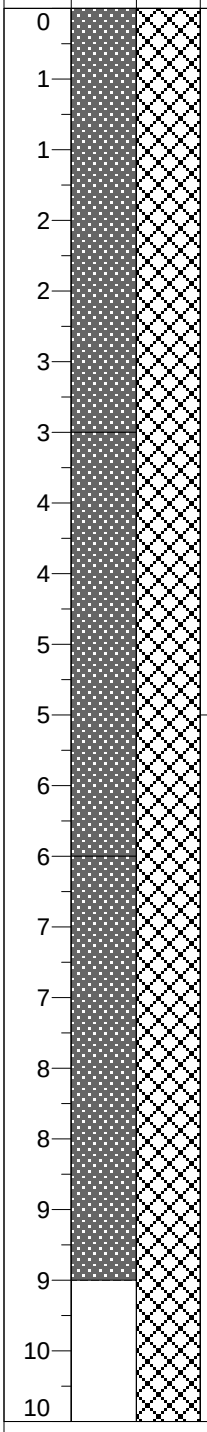
PROJECT #:	LST1802		
SITE ADDRESS:	355-399 Exterior Street, Bronx, New York		
BORING ID:	SB018	BORING DEPTH (FT): 10	CORE LENGTH (FT): N/A
WELL ID:		BORING DIAMETER (IN): 2	WELL DIAMETER (IN): 2
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED: 07/05/2019	DATE FINISHED: 07/05/2019
DRILLING METHOD:	Direct Push	TIME STARTED: 09:00	TIME FINISHED: 09:45
DRILLING EQUIPMENT:	Geoprobe 6610	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Macrocore	PROJECT MANAGER: Dan Haug	LOGGED BY: Daniel Haug

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–10			4	Dark Brown, medium SAND, some Gravel, little brick; dry and no odor.	0	0–10	
			4.5				

P.W. Grosser Consulting | **End of Boring Depth (feet):** 10 | **Water Table Symbol:** ▼ | Page 1 of 1

PROJECT #:	LST1802		
SITE ADDRESS:	355-399 Exterior Street, Bronx, New York		
BORING ID:	SB019	BORING DEPTH (FT): 10	CORE LENGTH (FT): N/A
WELL ID:		BORING DIAMETER (IN): 2	WELL DIAMETER (IN): 2
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED: 07/05/2019	DATE FINISHED: 07/05/2019
DRILLING METHOD:	Direct Push	TIME STARTED: 10:10	TIME FINISHED: 10:35
DRILLING EQUIPMENT:	Geoprobe 6610	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Macrocore	PROJECT MANAGER: Dan Haug	LOGGED BY: Daniel Haug

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–6			3.5	Dark Brown, fine to medium SAND, some Gravel, some brick; dry and no odor.	0	0–10	
6–10			4	Dark Brown to Grey, fine to medium SAND, little Gravel, little brick; dry and no odor	0		



P.W. Grosser Consulting | **End of Boring Depth (feet):** 10 | **Water Table Symbol:** ▼ | Page 1 of 1

PROJECT #:	LST1802		
SITE ADDRESS:	355-399 Exterior Street, Bronx, New York		
BORING ID:	SB020	BORING DEPTH (FT): 10	CORE LENGTH (FT): N/A
WELL ID:		BORING DIAMETER (IN): 2	WELL DIAMETER (IN): 2
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED: 07/05/2019	DATE FINISHED: 07/05/2019
DRILLING METHOD:	Direct Push	TIME STARTED: 10:45	TIME FINISHED: 11:05
DRILLING EQUIPMENT:	Geoprobe 6610	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Macrocore	PROJECT MANAGER: Dan Haug	LOGGED BY: Daniel Haug

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–10			3.5	Dark Brown, medium SAND, some Gravel, little brick; dry and no odor.	0	0–10	
			4				

P.W. Grosser Consulting | **End of Boring Depth (feet):** 10 | **Water Table Symbol:** ▼ | Page 1 of 1

PROJECT #:	LST1802		
SITE ADDRESS:	355-399 Exterior Street, Bronx, New York		
BORING ID:	SB021	BORING DEPTH (FT): 10	CORE LENGTH (FT): N/A
WELL ID:		BORING DIAMETER (IN): 2	WELL DIAMETER (IN): 2
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED: 07/05/2019	DATE FINISHED: 07/05/2019
DRILLING METHOD:	Direct Push	TIME STARTED: 11:20	TIME FINISHED: 12:00
DRILLING EQUIPMENT:	Geoprobe 6610	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Macrocore	PROJECT MANAGER: Dan Haug	LOGGED BY: Daniel Haug

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–10			4	Dark Brown, medium SAND, some Gravel, little brick; dry and no odor.	0	0–10	
			3.5				

P.W. Grosser Consulting | **End of Boring Depth (feet):** 10 | **Water Table Symbol:** ▼ | Page 1 of 1

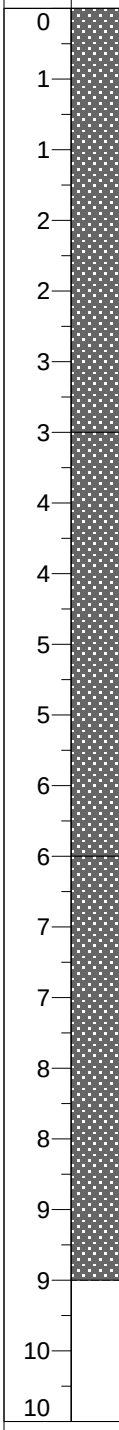
PROJECT #:	LST1802		
SITE ADDRESS:	355-399 Exterior Street, Bronx, New York		
BORING ID:	SB022	BORING DEPTH (FT): 10	CORE LENGTH (FT): N/A
WELL ID:		BORING DIAMETER (IN): 2	WELL DIAMETER (IN): 2
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED: 07/05/2019	DATE FINISHED: 07/05/2019
DRILLING METHOD:	Direct Push	TIME STARTED: 12:20	TIME FINISHED: 12:50
DRILLING EQUIPMENT:	Geoprobe 6610	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Macrocore	PROJECT MANAGER: Dan Haug	LOGGED BY: Daniel Haug

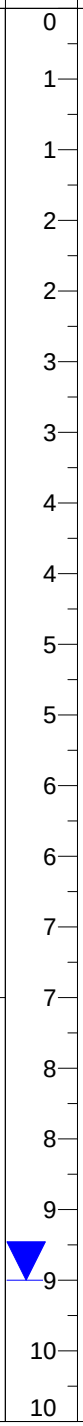
DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–3			4	Dark Brown, medium SAND, some Gravel, little brick; dry and no odor.	0	0–4	
5–10			4	Dark Brown to Grey, fine to medium SAND, little Gravel, little brick; dry and no odor	0	4–10	

P.W. Grosser Consulting | **End of Boring Depth (feet):** 10 | **Water Table Symbol:** ▼ | Page 1 of 1

PROJECT #:	LST1802		
SITE ADDRESS:	355-399 Exterior Street, Bronx, New York		
BORING ID:	SB023	BORING DEPTH (FT): 10	CORE LENGTH (FT): N/A
WELL ID:		BORING DIAMETER (IN): 2	WELL DIAMETER (IN): 2
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED: 07/05/2019	DATE FINISHED: 07/05/2019
DRILLING METHOD:	Direct Push	TIME STARTED: 13:15	TIME FINISHED: 14:05
DRILLING EQUIPMENT:	Geoprobe 6610	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Macrocore	PROJECT MANAGER: Dan Haug	LOGGED BY: Daniel Haug

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–5			4.5	Dark Brown, medium SAND, some Gravel, little brick; dry and no odor.	0	0–5	
5–10			3.5	Dark Brown to Grey, fine to medium SAND, little Gravel, little brick; dry and no odor	0	5–10	





P.W. Grosser Consulting | **End of Boring Depth (feet):** 10 | **Water Table Symbol:** ▼ | Page 1 of 1

APPENDIX C
LABORATORY ANALYTICAL REPORTS

Technical Report

prepared for:

P.W. Grosser Consulting
630 Johnson Avenue, Suite 7
Bohemia NY, 11716
Attention: Daniel Haug

Report Date: 05/20/2019
Client Project ID: LST 1802
York Project (SDG) No.: 19E0578

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 STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 05/20/2019
Client Project ID: LST 1802
York Project (SDG) No.: 19E0578

P.W. Grosser Consulting
630 Johnson Avenue, Suite 7
Bohemia NY, 11716
Attention: Daniel Haug

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 May 14, 2019 and listed below. The project was identified as your project: **LST 1802**.

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.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
19E0578-01	SV001	Soil Vapor	05/10/2019	05/14/2019
19E0578-02	SV002	Soil Vapor	05/10/2019	05/14/2019

General Notes for York Project (SDG) No.: 19E0578

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: 

Date: 05/20/2019

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: SV001 **York Sample ID:** 19E0578-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0578	LST 1802	Soil Vapor	May 10, 2019 12:00 am	05/14/2019

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.1	1.607	EPA TO-15 Certifications:	05/17/2019 09:00	05/17/2019 19:46	AS
71-55-6	* 1,1,1-Trichloroethane	ND		ug/m³	0.88	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
79-34-5	* 1,1,2,2-Tetrachloroethane	ND		ug/m³	1.1	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
76-13-1	* 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
79-00-5	* 1,1,2-Trichloroethane	ND		ug/m³	0.88	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
75-34-3	* 1,1-Dichloroethane	ND		ug/m³	0.65	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
75-35-4	* 1,1-Dichloroethylene	ND		ug/m³	0.16	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
120-82-1	* 1,2,4-Trichlorobenzene	ND		ug/m³	1.2	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
95-63-6	*** 1,2,4-Trimethylbenzene**	**12**		ug/m³	0.79	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
106-93-4	* 1,2-Dibromoethane	ND		ug/m³	1.2	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
95-50-1	* 1,2-Dichlorobenzene	ND		ug/m³	0.97	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
107-06-2	*** 1,2-Dichloroethane**	**0.78**		ug/m³	0.65	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
78-87-5	* 1,2-Dichloropropane	ND		ug/m³	0.74	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
76-14-2	* 1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
108-67-8	*** 1,3,5-Trimethylbenzene**	**3.2**		ug/m³	0.79	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
106-99-0	* 1,3-Butadiene	ND		ug/m³	1.1	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
541-73-1	* 1,3-Dichlorobenzene	ND		ug/m³	0.97	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.74	1.607	EPA TO-15 Certifications:	05/17/2019 09:00	05/17/2019 19:46	AS
106-46-7	* 1,4-Dichlorobenzene	ND		ug/m³	0.97	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
123-91-1	* 1,4-Dioxane	ND		ug/m³	1.2	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
78-93-3	*** 2-Butanone**	**12**		ug/m³	0.47	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
591-78-6	* 2-Hexanone	ND		ug/m³	1.3	1.607	EPA TO-15 Certifications:	05/17/2019 09:00	05/17/2019 19:46	AS

Sample Information

Client Sample ID: **SV001** **York Sample ID:** **19E0578-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0578	LST 1802	Soil Vapor	May 10, 2019 12:00 am	05/14/2019

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	* 3-Chloropropene	ND		ug/m³	2.5	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
108-10-1	*** 4-Methyl-2-pentanone**	**18**		ug/m³	0.66	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
67-64-1	*** Acetone**	**96**		ug/m³	0.76	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
107-13-1	* Acrylonitrile	ND		ug/m³	0.35	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
71-43-2	*** Benzene**	**3.5**		ug/m³	0.51	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
100-44-7	* Benzyl chloride	ND		ug/m³	0.83	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
75-27-4	* Bromodichloromethane	ND		ug/m³	1.1	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
75-25-2	* Bromoform	ND		ug/m³	1.7	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
74-83-9	* Bromomethane	ND		ug/m³	0.62	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
75-15-0	* Carbon disulfide	ND		ug/m³	0.50	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
56-23-5	*** Carbon tetrachloride**	**0.71**		ug/m³	0.25	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
108-90-7	* Chlorobenzene	ND		ug/m³	0.74	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
75-00-3	* Chloroethane	ND		ug/m³	0.42	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
67-66-3	* Chloroform	ND		ug/m³	0.78	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
74-87-3	*** Chloromethane**	**2.0**		ug/m³	0.33	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
156-59-2	*** cis-1,2-Dichloroethylene**	**0.25**		ug/m³	0.16	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
10061-01-5	* cis-1,3-Dichloropropylene	ND		ug/m³	0.73	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
110-82-7	*** Cyclohexane**	**2.5**		ug/m³	0.55	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
124-48-1	* Dibromochloromethane	ND		ug/m³	1.4	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
75-71-8	*** Dichlorodifluoromethane**	**4.7**	TO-CCV, TO-LCS-H	ug/m³	0.79	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
141-78-6	*** Ethyl acetate**	**20**		ug/m³	1.2	1.607	EPA TO-15 Certifications:	05/17/2019 09:00	05/17/2019 19:46	AS
100-41-4	*** Ethyl Benzene**	**7.6**		ug/m³	0.70	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS

Sample Information

Client Sample ID: **SV001** **York Sample ID:** **19E0578-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0578	LST 1802	Soil Vapor	May 10, 2019 12:00 am	05/14/2019

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	* Hexachlorobutadiene	ND		ug/m³	1.7	1.607	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 19:46	AS
67-63-0	*** Isopropanol**	**36**		ug/m³	0.79	1.607	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 19:46	AS
80-62-6	* Methyl Methacrylate	ND		ug/m³	0.66	1.607	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 19:46	AS
1634-04-4	* Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.58	1.607	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 19:46	AS
75-09-2	*** Methylene chloride**	**22**		ug/m³	1.1	1.607	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 19:46	AS
142-82-5	*** n-Heptane**	**19**		ug/m³	0.66	1.607	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 19:46	AS
110-54-3	*** n-Hexane**	**6.8**		ug/m³	0.57	1.607	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 19:46	AS
95-47-6	*** o-Xylene**	**9.3**		ug/m³	0.70	1.607	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 19:46	AS
179601-23-1	*** p- & m- Xylenes**	**30**		ug/m³	1.4	1.607	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 19:46	AS
622-96-8	*** p-Ethyltoluene**	**9.7**		ug/m³	0.79	1.607	EPA TO-15 Certifications:	05/17/2019 09:00	05/17/2019 19:46	AS
115-07-1	*** Propylene**	**3.4**	TO-CCV, TO-LCS-H	ug/m³	0.28	1.607	EPA TO-15 Certifications:	05/17/2019 09:00	05/17/2019 19:46	AS
100-42-5	*** Styrene**	**2.1**		ug/m³	0.68	1.607	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 19:46	AS
127-18-4	*** Tetrachloroethylene**	**5.6**		ug/m³	0.27	1.607	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 19:46	AS
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.95	1.607	EPA TO-15 Certifications:	05/17/2019 09:00	05/17/2019 19:46	AS
108-88-3	*** Toluene**	**120**		ug/m³	0.61	1.607	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 19:46	AS
156-60-5	* trans-1,2-Dichloroethylene	ND		ug/m³	0.64	1.607	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 19:46	AS
10061-02-6	* trans-1,3-Dichloropropylene	ND		ug/m³	0.73	1.607	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 19:46	AS
79-01-6	*** Trichloroethylene**	**0.43**		ug/m³	0.22	1.607	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 19:46	AS
75-69-4	*** Trichlorofluoromethane (Freon 11)**	**2.0**		ug/m³	0.90	1.607	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 19:46	AS
108-05-4	* Vinyl acetate	ND		ug/m³	0.57	1.607	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 19:46	AS
593-60-2	* Vinyl bromide	ND		ug/m³	0.70	1.607	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 19:46	AS
75-01-4	* Vinyl Chloride	ND		ug/m³	0.10	1.607	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 19:46	AS

Sample Information

Client Sample ID: **SV001** **York Sample ID:** **19E0578-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0578	LST 1802	Soil Vapor	May 10, 2019 12:00 am	05/14/2019

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*98.3 %*		*70-130*						

Sample Information

Client Sample ID: **SV002** **York Sample ID:** **19E0578-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0578	LST 1802	Soil Vapor	May 10, 2019 12:00 am	05/14/2019

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	2.1	3.112	EPA TO-15 Certifications:	05/17/2019 09:00	05/17/2019 21:53	AS
71-55-6	* 1,1,1-Trichloroethane	ND		ug/m³	1.7	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
79-34-5	* 1,1,2,2-Tetrachloroethane	ND		ug/m³	2.1	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
76-13-1	* 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	2.4	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
79-00-5	* 1,1,2-Trichloroethane	ND		ug/m³	1.7	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
75-34-3	* 1,1-Dichloroethane	ND		ug/m³	1.3	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
75-35-4	* 1,1-Dichloroethylene	ND		ug/m³	0.31	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
120-82-1	* 1,2,4-Trichlorobenzene	ND		ug/m³	2.3	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
95-63-6	* 1,2,4-Trimethylbenzene	ND		ug/m³	1.5	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
106-93-4	* 1,2-Dibromoethane	ND		ug/m³	2.4	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
95-50-1	* 1,2-Dichlorobenzene	ND		ug/m³	1.9	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
107-06-2	* 1,2-Dichloroethane	ND		ug/m³	1.3	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
78-87-5	* 1,2-Dichloropropane	ND		ug/m³	1.4	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
76-14-2	*** 1,2-Dichlorotetrafluoroethane**	**22**		ug/m³	2.2	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
108-67-8	* 1,3,5-Trimethylbenzene	ND		ug/m³	1.5	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS

Sample Information

Client Sample ID: **SV002** **York Sample ID:** **19E0578-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0578	LST 1802	Soil Vapor	May 10, 2019 12:00 am	05/14/2019

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-99-0	* 1,3-Butadiene	ND		ug/m³	2.1	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
541-73-1	* 1,3-Dichlorobenzene	ND		ug/m³	1.9	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	1.4	3.112	EPA TO-15 Certifications:	05/17/2019 09:00	05/17/2019 21:53	AS
106-46-7	* 1,4-Dichlorobenzene	ND		ug/m³	1.9	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
123-91-1	* 1,4-Dioxane	ND		ug/m³	2.2	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
78-93-3	* **2-Butanone**	**120**		ug/m³	0.92	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
591-78-6	* **2-Hexanone**	**16**		ug/m³	2.5	3.112	EPA TO-15 Certifications:	05/17/2019 09:00	05/17/2019 21:53	AS
107-05-1	* 3-Chloropropene	ND		ug/m³	4.9	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
108-10-1	* 4-Methyl-2-pentanone	ND		ug/m³	1.3	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
67-64-1	* **Acetone**	**67**		ug/m³	1.5	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
107-13-1	* Acrylonitrile	ND		ug/m³	0.68	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
71-43-2	* **Benzene**	**5.3**		ug/m³	0.99	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
100-44-7	* Benzyl chloride	ND		ug/m³	1.6	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
75-27-4	* Bromodichloromethane	ND		ug/m³	2.1	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
75-25-2	* Bromoform	ND		ug/m³	3.2	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
74-83-9	* Bromomethane	ND		ug/m³	1.2	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
75-15-0	* **Carbon disulfide**	**4.1**		ug/m³	0.97	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
56-23-5	* Carbon tetrachloride	ND		ug/m³	0.49	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
108-90-7	* Chlorobenzene	ND		ug/m³	1.4	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
75-00-3	* Chloroethane	ND		ug/m³	0.82	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
67-66-3	* Chloroform	ND		ug/m³	1.5	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
74-87-3	* Chloromethane	ND		ug/m³	0.64	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
156-59-2	* cis-1,2-Dichloroethylene	ND		ug/m³	0.31	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS

Sample Information

Client Sample ID: **SV002** **York Sample ID:** **19E0578-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0578	LST 1802	Soil Vapor	May 10, 2019 12:00 am	05/14/2019

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	* cis-1,3-Dichloropropylene	ND		ug/m³	1.4	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
110-82-7	* **Cyclohexane**	**1.5**		ug/m³	1.1	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
124-48-1	* Dibromochloromethane	ND		ug/m³	2.7	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
75-71-8	* **Dichlorodifluoromethane**	**2.6**	TO-CCV, TO-LCS-H	ug/m³	1.5	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
141-78-6	* Ethyl acetate	ND		ug/m³	2.2	3.112	EPA TO-15 Certifications:	05/17/2019 09:00	05/17/2019 21:53	AS
100-41-4	* Ethyl Benzene	ND		ug/m³	1.4	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
87-68-3	* Hexachlorobutadiene	ND		ug/m³	3.3	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
67-63-0	* **Isopropanol**	**4.5**		ug/m³	1.5	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
80-62-6	* Methyl Methacrylate	ND		ug/m³	1.3	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
1634-04-4	* Methyl tert-butyl ether (MTBE)	ND		ug/m³	1.1	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
75-09-2	* Methylene chloride	ND		ug/m³	2.2	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
142-82-5	* **n-Heptane**	**1.5**		ug/m³	1.3	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
110-54-3	* **n-Hexane**	**1.8**		ug/m³	1.1	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
95-47-6	* o-Xylene	ND		ug/m³	1.4	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
179601-23-1	* p- & m- Xylenes	ND		ug/m³	2.7	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
622-96-8	* **p-Ethyltoluene**	**1.7**		ug/m³	1.5	3.112	EPA TO-15 Certifications:	05/17/2019 09:00	05/17/2019 21:53	AS
115-07-1	* **Propylene**	**11**	TO-CCV, TO-LCS-H	ug/m³	0.54	3.112	EPA TO-15 Certifications:	05/17/2019 09:00	05/17/2019 21:53	AS
100-42-5	* Styrene	ND		ug/m³	1.3	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
127-18-4	* **Tetrachloroethylene**	**12**		ug/m³	0.53	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS
109-99-9	* **Tetrahydrofuran**	**5.8**		ug/m³	1.8	3.112	EPA TO-15 Certifications:	05/17/2019 09:00	05/17/2019 21:53	AS
108-88-3	* **Toluene**	**4.5**		ug/m³	1.2	3.112	EPA TO-15 Certifications:	05/17/2019 09:00 NELAC-NY12058,NJDEP-Queens	05/17/2019 21:53	AS

Sample Information

Client Sample ID: **SV002** **York Sample ID:** **19E0578-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0578	LST 1802	Soil Vapor	May 10, 2019 12:00 am	05/14/2019

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-60-5	* trans-1,2-Dichloroethylene	ND		ug/m³	1.2	3.112	EPA TO-15	05/17/2019 09:00	05/17/2019 21:53	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	* trans-1,3-Dichloropropylene	ND		ug/m³	1.4	3.112	EPA TO-15	05/17/2019 09:00	05/17/2019 21:53	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	* Trichloroethylene	ND		ug/m³	0.42	3.112	EPA TO-15	05/17/2019 09:00	05/17/2019 21:53	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	*** Trichlorofluoromethane (Freon 11)**	**2.3**		ug/m³	1.7	3.112	EPA TO-15	05/17/2019 09:00	05/17/2019 21:53	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	* Vinyl acetate	ND		ug/m³	1.1	3.112	EPA TO-15	05/17/2019 09:00	05/17/2019 21:53	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	* Vinyl bromide	ND		ug/m³	1.4	3.112	EPA TO-15	05/17/2019 09:00	05/17/2019 21:53	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	* Vinyl Chloride	ND		ug/m³	0.20	3.112	EPA TO-15	05/17/2019 09:00	05/17/2019 21:53	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*88.3 %*	*70-130*

Analytical Batch Summary

Batch ID: BE90934 **Preparation Method:** EPA TO15 PREP **Prepared By:** AS

YORK Sample ID	Client Sample ID	Preparation Date
19E0578-01	SV001	05/17/19
19E0578-02	SV002	05/17/19
BE90934-BLK1	Blank	05/17/19
BE90934-BS1	LCS	05/17/19
BE90934-DUP1	Duplicate	05/17/19

Volatile Organic Compounds in Air 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 BE90934 - EPA TO15 PREP											
Blank (BE90934-BLK1)											Prepared & Analyzed: 05/17/2019
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								

Volatile Organic Compounds in Air 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 BE90934 - EPA TO15 PREP											
Blank (BE90934-BLK1)									Prepared & Analyzed: 05/17/2019		
n-Heptane	ND	0.41	ug/m³								
n-Hexane	ND	0.35	"								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.17	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.064	"								
Surrogate: SURR: p-Bromofluorobenzene	*8.47*		*ppbv*	*10.0*		*84.7*	*70-130*				
LCS (BE90934-BS1)									Prepared & Analyzed: 05/17/2019		
1,1,1,2-Tetrachloroethane	10.8		ppbv	10.0		108	70-130				
1,1,1-Trichloroethane	11.1		"	10.0		111	70-130				
1,1,2,2-Tetrachloroethane	11.9		"	10.0		119	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.5		"	10.0		105	70-130				
1,1,2-Trichloroethane	10.4		"	10.0		104	70-130				
1,1-Dichloroethane	10.8		"	10.0		108	70-130				
1,1-Dichloroethylene	10.3		"	10.0		103	70-130				
1,2,4-Trichlorobenzene	7.93		"	10.0		79.3	70-130				
1,2,4-Trimethylbenzene	11.9		"	10.0		119	70-130				
1,2-Dibromoethane	11.0		"	10.0		110	70-130				
1,2-Dichlorobenzene	11.9		"	10.0		119	70-130				
1,2-Dichloroethane	10.1		"	10.0		101	70-130				
1,2-Dichloropropane	10.9		"	10.0		109	70-130				
1,2-Dichlorotetrafluoroethane	11.2		"	10.0		112	70-130				
1,3,5-Trimethylbenzene	11.6		"	10.0		116	70-130				
1,3-Butadiene	12.0		"	10.0		120	70-130				
1,3-Dichlorobenzene	11.7		"	10.0		117	70-130				
1,3-Dichloropropane	10.7		"	10.0		107	70-130				
1,4-Dichlorobenzene	12.0		"	10.0		120	70-130				
1,4-Dioxane	10.9		"	10.0		109	70-130				
2-Butanone	11.1		"	10.0		111	70-130				
2-Hexanone	12.0		"	10.0		120	70-130				
3-Chloropropene	11.5		"	10.0		115	70-130				
4-Methyl-2-pentanone	11.8		"	10.0		118	70-130				
Acetone	10.3		"	10.0		103	70-130				
Acrylonitrile	10.8		"	10.0		108	70-130				
Benzene	10.3		"	10.0		103	70-130				
Benzyl chloride	9.76		"	10.0		97.6	70-130				
Bromodichloromethane	11.0		"	10.0		110	70-130				
Bromoform	12.5		"	10.0		125	70-130				

Volatile Organic Compounds in Air 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 BE90934 - EPA TO15 PREP											
LCS (BE90934-BS1)								Prepared & Analyzed: 05/17/2019			
Bromomethane	11.6		ppbv	10.0		116	70-130				
Carbon disulfide	11.3		"	10.0		113	70-130				
Carbon tetrachloride	10.2		"	10.0		102	70-130				
Chlorobenzene	11.1		"	10.0		111	70-130				
Chloroethane	11.6		"	10.0		116	70-130				
Chloroform	10.8		"	10.0		108	70-130				
Chloromethane	8.23		"	10.0		82.3	70-130				
cis-1,2-Dichloroethylene	9.99		"	10.0		99.9	70-130				
cis-1,3-Dichloropropylene	12.0		"	10.0		120	70-130				
Cyclohexane	11.4		"	10.0		114	70-130				
Dibromochloromethane	10.9		"	10.0		109	70-130				
Dichlorodifluoromethane	15.6		"	10.0		156	70-130	High Bias			
Ethyl acetate	12.2		"	10.0		122	70-130				
Ethyl Benzene	11.5		"	10.0		115	70-130				
Hexachlorobutadiene	11.1		"	10.0		111	70-130				
Isopropanol	10.8		"	10.0		108	70-130				
Methyl Methacrylate	11.8		"	10.0		118	70-130				
Methyl tert-butyl ether (MTBE)	11.4		"	10.0		114	70-130				
Methylene chloride	10.2		"	10.0		102	70-130				
n-Heptane	11.2		"	10.0		112	70-130				
n-Hexane	11.3		"	10.0		113	70-130				
o-Xylene	12.2		"	10.0		122	70-130				
p- & m- Xylenes	23.8		"	20.0		119	70-130				
p-Ethyltoluene	12.6		"	10.0		126	70-130				
Propylene	14.8		"	10.0		148	70-130	High Bias			
Styrene	12.4		"	10.0		124	70-130				
Tetrachloroethylene	10.2		"	10.0		102	70-130				
Tetrahydrofuran	11.3		"	10.0		113	70-130				
Toluene	10.7		"	10.0		107	70-130				
trans-1,2-Dichloroethylene	11.2		"	10.0		112	70-130				
trans-1,3-Dichloropropylene	11.1		"	10.0		111	70-130				
Trichloroethylene	10.7		"	10.0		107	70-130				
Trichlorofluoromethane (Freon 11)	10.6		"	10.0		106	70-130				
Vinyl acetate	11.4		"	10.0		114	70-130				
Vinyl bromide	11.7		"	10.0		117	70-130				
Vinyl Chloride	11.1		"	10.0		111	70-130				
Surrogate: SURR: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*70-130*				

Volatile Organic Compounds in Air 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 BE90934 - EPA TO15 PREP											
Duplicate (BE90934-DUP1)	*Source sample: 19E0578-01 (SV001)								Prepared & Analyzed: 05/17/2019		
1,1,1,2-Tetrachloroethane	ND	1.1	ug/m³		ND					25	
1,1,1-Trichloroethane	ND	0.88	"		ND					25	
1,1,2,2-Tetrachloroethane	ND	1.1	"		ND					25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.2	"		ND					25	
1,1,2-Trichloroethane	ND	0.88	"		ND					25	
1,1-Dichloroethane	ND	0.65	"		ND					25	
1,1-Dichloroethylene	ND	0.16	"		ND					25	
1,2,4-Trichlorobenzene	ND	1.2	"		ND					25	
1,2,4-Trimethylbenzene	11	0.79	"		12				6.67	25	
1,2-Dibromoethane	ND	1.2	"		ND					25	
1,2-Dichlorobenzene	ND	0.97	"		ND					25	
1,2-Dichloroethane	0.78	0.65	"		0.78				0.00	25	
1,2-Dichloropropane	ND	0.74	"		ND					25	
1,2-Dichlorotetrafluoroethane	ND	1.1	"		ND					25	
1,3,5-Trimethylbenzene	2.8	0.79	"		3.2				10.5	25	
1,3-Butadiene	ND	1.1	"		ND					25	
1,3-Dichlorobenzene	ND	0.97	"		ND					25	
1,3-Dichloropropane	ND	0.74	"		ND					25	
1,4-Dichlorobenzene	ND	0.97	"		ND					25	
1,4-Dioxane	ND	1.2	"		ND					25	
2-Butanone	11	0.47	"		12				5.93	25	
2-Hexanone	ND	1.3	"		ND					25	
3-Chloropropene	ND	2.5	"		ND					25	
4-Methyl-2-pentanone	16	0.66	"		18				13.0	25	
Acetone	92	0.76	"		96				4.68	25	
Acrylonitrile	ND	0.35	"		ND					25	
Benzene	3.5	0.51	"		3.5				1.46	25	
Benzyl chloride	ND	0.83	"		ND					25	
Bromodichloromethane	ND	1.1	"		ND					25	
Bromoform	ND	1.7	"		ND					25	
Bromomethane	ND	0.62	"		ND					25	
Carbon disulfide	ND	0.50	"		ND					25	
Carbon tetrachloride	0.81	0.25	"		0.71				13.3	25	
Chlorobenzene	ND	0.74	"		ND					25	
Chloroethane	ND	0.42	"		ND					25	
Chloroform	ND	0.78	"		ND					25	
Chloromethane	1.8	0.33	"		2.0				14.0	25	
cis-1,2-Dichloroethylene	0.38	0.16	"		0.25				40.0	25	Non-dir.
cis-1,3-Dichloropropylene	ND	0.73	"		ND					25	
Cyclohexane	2.4	0.55	"		2.5				6.74	25	
Dibromochloromethane	ND	1.4	"		ND					25	
Dichlorodifluoromethane	4.8	0.79	"		4.7				1.68	25	
Ethyl acetate	19	1.2	"		20				6.59	25	
Ethyl Benzene	7.0	0.70	"		7.6				7.62	25	
Hexachlorobutadiene	ND	1.7	"		ND					25	
Isopropanol	34	0.79	"		36				4.88	25	
Methyl Methacrylate	ND	0.66	"		ND					25	
Methyl tert-butyl ether (MTBE)	ND	0.58	"		ND					25	
Methylene chloride	24	1.1	"		22				7.64	25	
n-Heptane	18	0.66	"		19				6.66	25	

Volatile Organic Compounds in Air 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 BE90934 - EPA TO15 PREP											
Duplicate (BE90934-DUP1)	*Source sample: 19E0578-01 (SV001)								Prepared & Analyzed: 05/17/2019		
n-Hexane	6.9	0.57	ug/m³		6.8				1.65	25	
o-Xylene	8.7	0.70	"		9.3				7.00	25	
p- & m- Xylenes	29	1.4	"		30				4.22	25	
p-Ethyltoluene	9.0	0.79	"		9.7				7.59	25	
Propylene	3.4	0.28	"		3.4				0.00	25	
Styrene	2.0	0.68	"		2.1				3.39	25	
Tetrachloroethylene	4.9	0.27	"		5.6				12.5	25	
Tetrahydrofuran	ND	0.95	"		ND					25	
Toluene	110	0.61	"		120				11.2	25	
trans-1,2-Dichloroethylene	ND	0.64	"		ND					25	
trans-1,3-Dichloropropylene	ND	0.73	"		ND					25	
Trichloroethylene	0.35	0.22	"		0.43				22.2	25	
Trichlorofluoromethane (Freon 11)	2.1	0.90	"		2.0				4.44	25	
Vinyl acetate	ND	0.57	"		ND					25	
Vinyl bromide	ND	0.70	"		ND					25	
Vinyl Chloride	ND	0.10	"		ND					25	
Surrogate: SURR: p-Bromofluorobenzene	*9.69*		*ppbv*	*10.0*		*96.9*	*70-130*				

Sample and Data Qualifiers Relating to This Work Order

TO-LCS-H	The result reported for this compound may be biased high due to its behavior in the analysis batch LCS where it recovered greater than 130% of the expected value.
TO-CCV	The value reported is ESTIMATED for this compound due to its behavior during continuing calibration verification (>30% Difference from initial calibration).
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.

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.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record - AIR

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.

YORK Project No. 19E0578

YOUR Information	Report To:	Invoice To:
Company: PWGC	Company:	Company:
Address: 630 Johnson Ave Bohemia NY 11716	Address:	Address:
Phone.: 631-589-6353	Phone.:	Phone.:
Contact: Dan Haug	Contact:	Contact:
E-mail: DHaug@pwgrosser.com	E-mail:	E-mail:

YOUR Project Number: LST1802

YOUR Project Name: LST 1802

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

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) Janelle Cooley

Air Matrix Codes

AI - Indoor Ambient Air
AO - Outdoor Amb. Air
AE - Vapor Extraction Well/ Process Gas/Effluent
AS - Soil Vapor/Sub-Slab

Samples From

New York	X
New Jersey	
Connecticut	
Pennsylvania	X
Other	

Report / EDD Type (circle selections)

Summary Report	CT RCP	Standard Excel EDD
QA Report	CT RCP DQA/DUE	EQuIS (Standard)
~~NY ASP A Package~~	NJDEP Reduced Deliv.	NYSDEC EQuIS
NY ASP B Package	NJDKQP	NJDEP SRP HazSite
Other:		

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Certified Canisters: Batch ___ Individual ___

Please enter the following REQUIRED Field Data

Reporting Units: ug/m³ X ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
SV001	5/10/15	~~23999~~ AS	-29.5	-5.0	23999	6876	TO-15
SV002	5/10/15	AS	-29.0	-4.0	15529	5416	TO-15

Comments: Proposal from 4/29/19

Detection Limits Required

≤ 1 ug/m³ ___ NYSDEC V1 Limits ___
Routine Survey ___ Other ___

Sampling Media

6 Liter Canister
Tedlar Bag

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
	5/13/19 1400	KBahnyork	5/13/19 1400	KBahnyork	5/14/19 810AM
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Queens Secured Room	5/14/19 810AM				
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				[illegible] York	5/14/19 9:35am

Technical Report

prepared for:

P.W. Grosser Consulting
630 Johnson Avenue, Suite 7
Bohemia NY, 11716
Attention: Daniel Haug

Report Date: 05/30/2019
Client Project ID: LST 1802
York Project (SDG) No.: 19E0591

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 STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 05/30/2019
Client Project ID: LST 1802
York Project (SDG) No.: 19E0591

P.W. Grosser Consulting
630 Johnson Avenue, Suite 7
Bohemia NY, 11716
Attention: Daniel Haug

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 May 13, 2019 and listed below. The project was identified as your project: **LST 1802**.

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.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
19E0591-01	SB001 (0-2)	Soil	05/10/2019	05/13/2019
19E0591-02	SB001 (2-4)	Soil	05/10/2019	05/13/2019
19E0591-03	SB001 (4-6)	Soil	05/10/2019	05/13/2019
19E0591-04	SB002 (4-6)	Soil	05/10/2019	05/13/2019
19E0591-05	SB002 (6-8)	Soil	05/10/2019	05/13/2019
19E0591-06	SB002 (0-2)	Soil	05/10/2019	05/13/2019
19E0591-07	SB003 (6-8)	Soil	05/10/2019	05/13/2019
19E0591-08	SB003 (10-12)	Soil	05/10/2019	05/13/2019
19E0591-09	SB003 (0-2)	Soil	05/10/2019	05/13/2019
19E0591-10	SB004 (0-2)	Soil	05/10/2019	05/13/2019
19E0591-11	SB004 (4-6)	Soil	05/10/2019	05/13/2019
19E0591-12	SB004 (2-4)	Soil	05/10/2019	05/13/2019
19E0591-13	SB005 (2-4)	Soil	05/10/2019	05/13/2019
19E0591-14	SB005 (0-2)	Soil	05/10/2019	05/13/2019
19E0591-15	SB005 (8-10)	Soil	05/10/2019	05/13/2019
19E0591-16	SB006 (0-2)	Soil	05/10/2019	05/13/2019
19E0591-17	SB006 (4-6)	Soil	05/10/2019	05/13/2019
19E0591-18	SB006 (6-8)	Soil	05/10/2019	05/13/2019
19E0591-19	SB007 (8-10)	Soil	05/10/2019	05/13/2019
19E0591-20	SB007 (12-14)	Soil	05/10/2019	05/13/2019
19E0591-21	SB007 (0-2)	Soil	05/10/2019	05/13/2019
19E0591-22	SB008 (6-8)	Soil	05/10/2019	05/13/2019

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
19E0591-23	SB008 (0-2)	Soil	05/10/2019	05/13/2019
19E0591-24	SB008 (4-6)	Soil	05/10/2019	05/13/2019
19E0591-25	SB009 (6-8)	Soil	05/10/2019	05/13/2019
19E0591-26	SB009 (2-4)	Soil	05/10/2019	05/13/2019
19E0591-27	SB009 (8-10)	Soil	05/10/2019	05/13/2019
19E0591-28	SB010 (0-2)	Soil	05/10/2019	05/13/2019
19E0591-29	SB010 (6-8)	Soil	05/10/2019	05/13/2019
19E0591-30	SB010 (2-4)	Soil	05/10/2019	05/13/2019
19E0591-31	MW001	Water	05/10/2019	05/13/2019
19E0591-32	MW002	Water	05/10/2019	05/13/2019
19E0591-33	MW003	Water	05/10/2019	05/13/2019
19E0591-34	MW004	Water	05/10/2019	05/13/2019
19E0591-35	DUPE001	Soil	05/10/2019	05/13/2019
19E0591-36	DUPE002	Soil	05/10/2019	05/13/2019
19E0591-37	DUPE003	Water	05/10/2019	05/13/2019
19E0591-38	SB009 (8-10) E	Soil	05/10/2019	05/13/2019
19E0591-39	SB009 (8-10) N	Soil	05/10/2019	05/13/2019
19E0591-40	SB009 (8-10) W	Soil	05/10/2019	05/13/2019
19E0591-41	FB001	Water	05/10/2019	05/13/2019
19E0591-42	EB001	Water	05/10/2019	05/13/2019
19E0591-43	FB002	Water	05/10/2019	05/13/2019
19E0591-44	EB002	Water	05/10/2019	05/13/2019
19E0591-45	FB003	Water	05/10/2019	05/13/2019
19E0591-46	EB003	Water	05/10/2019	05/13/2019
19E0591-47	TB001	Water	05/10/2019	05/13/2019
19E0591-48	TB002	Water	05/10/2019	05/13/2019

General Notes for York Project (SDG) No.: 19E0591

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: 

Date: 05/30/2019

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: SB001 (0-2) **York Sample ID:** 19E0591-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:15 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.522	1.04	10	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,PADEP	05/22/2019 17:03	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,PADEP	05/22/2019 17:03	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,PADEP	05/22/2019 17:03	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.522	1.04	10	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.522	1.04	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.522	1.04	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH

Sample Information

Client Sample ID: SB001 (0-2) **York Sample ID:** 19E0591-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:15 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.522	1.04	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.522	1.04	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.522	1.04	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.522	1.04	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
62-53-3	Aniline	ND		mg/kg dry	1.04	2.09	10	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
120-12-7	**Anthracene**	**0.459**	J	mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
92-87-5	Benzidine	ND		mg/kg dry	1.04	2.09	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,PADEP	05/22/2019 17:03	KH
56-55-3	**Benzo(a)anthracene**	**1.59**		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
50-32-8	**Benzo(a)pyrene**	**1.64**		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
205-99-2	**Benzo(b)fluoranthene**	**1.42**		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
191-24-2	**Benzo(g,h,i)perylene**	**1.03**		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
207-08-9	**Benzo(k)fluoranthene**	**1.24**		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH

Sample Information

Client Sample ID: **SB001 (0-2)** **York Sample ID:** **19E0591-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:15 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
85-68-7	**Benzyl butyl phthalate**	**0.413**	CCV-E, J	mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.492**	CCV-E, J	mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.522	1.04	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
86-74-8	Carbazole	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
218-01-9	**Chrysene**	**1.40**		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
53-70-3	**Dibenzo(a,h)anthracene**	**0.325**	J	mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
206-44-0	**Fluoranthene**	**2.98**		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
86-73-7	Fluorene	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**1.27**		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
78-59-1	Isophorone	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH

Sample Information

Client Sample ID: SB001 (0-2) **York Sample ID:** 19E0591-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:15 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
85-01-8	**Phenanthrene**	**1.58**		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
108-95-2	Phenol	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
129-00-0	**Pyrene**	**2.40**		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH
110-86-1	Pyridine	ND		mg/kg dry	1.04	2.09	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:03	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*60.6 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*64.8 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*71.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*67.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*72.0 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*68.8 %*	*24-116*

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	0.00205	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:49	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:49	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:49	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:49	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:49	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 08:00 NELAC-NY10854,NJDEP	05/22/2019 21:49	CM

Sample Information

Client Sample ID: SB001 (0-2) **York Sample ID:** 19E0591-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:15 am	05/13/2019

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
319-85-7	beta-BHC	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:49	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:49	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:49	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:49	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854	05/22/2019 21:49	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:49	CM
72-20-8	Endrin	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:49	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:49	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:49	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:49	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 08:00 NELAC-NY10854,NJDEP	05/22/2019 21:49	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:49	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:49	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:49	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.205	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:49	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0410	5	EPA 8081B Certifications:	05/20/2019 08:00	05/22/2019 21:49	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*125 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*56.9 %*	*30-150*

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	0.0207	1	EPA 8082A Certifications:	05/20/2019 08:00 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 00:13	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0207	1	EPA 8082A Certifications:	05/20/2019 08:00 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 00:13	SR

Sample Information

Client Sample ID: SB001 (0-2) **York Sample ID:** 19E0591-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:15 am	05/13/2019

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
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0207	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/23/2019 00:13	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0207	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/23/2019 00:13	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0207	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/23/2019 00:13	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0207	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/23/2019 00:13	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0207	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/23/2019 00:13	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0207	1	EPA 8082A Certifications:	05/20/2019 08:00	05/23/2019 00:13	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.5 %*	*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**	**7890**		mg/kg dry	6.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:13	KML
7440-36-0	Antimony	ND		mg/kg dry	3.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:13	KML
7440-38-2	**Arsenic**	**5.08**		mg/kg dry	1.89	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:13	KML
7440-39-3	**Barium**	**144**		mg/kg dry	3.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:13	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.063	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:13	KML
7440-43-9	**Cadmium**	**1.68**		mg/kg dry	0.378	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:13	KML
7440-70-2	**Calcium**	**26100**		mg/kg dry	6.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:13	KML
7440-47-3	**Chromium**	**16.2**		mg/kg dry	0.630	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:13	KML
7440-48-4	**Cobalt**	**7.25**		mg/kg dry	0.504	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:13	KML
7440-50-8	**Copper**	**188**		mg/kg dry	2.52	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:13	KML
7439-89-6	**Iron**	**16700**		mg/kg dry	31.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:13	KML
7439-92-1	**Lead**	**962**		mg/kg dry	0.630	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:13	KML

Sample Information

Client Sample ID: SB001 (0-2) **York Sample ID:** 19E0591-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:15 am	05/13/2019

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
7439-95-4	**Magnesium**	**8540**		mg/kg dry	6.30	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:13	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**300**		mg/kg dry	0.630	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:13	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**17.6**		mg/kg dry	1.26	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:13	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1590**		mg/kg dry	6.30	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:13	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	3.15	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:13	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.630	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:13	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**314**		mg/kg dry	63.0	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:13	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.15	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:13	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**23.7**		mg/kg dry	1.26	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:13	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**370**		mg/kg dry	3.15	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:13	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**0.502**		mg/kg dry	0.0378	1	EPA 7473	05/22/2019 09:03	05/22/2019 12:16	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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**	**79.4**		%	0.100	1	SM 2540G	05/16/2019 22:16	05/17/2019 15:13	JTV
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB001 (2-4) **York Sample ID:** 19E0591-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:25 am	05/13/2019

Sample Information

Client Sample ID: **SB001 (2-4)** **York Sample ID:** **19E0591-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:25 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0966	0.193	2	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,PADEP	05/22/2019 17:32	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,PADEP	05/22/2019 17:32	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,PADEP	05/22/2019 17:32	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0966	0.193	2	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0966	0.193	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0966	0.193	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH

Sample Information

Client Sample ID: SB001 (2-4) **York Sample ID:** 19E0591-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:25 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0966	0.193	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0966	0.193	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0966	0.193	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0966	0.193	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
83-32-9	**Acenaphthene**	**0.111**		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
208-96-8	**Acenaphthylene**	**0.226**		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 NELAC-NY10854,NJDEP,PADEP	KH
62-53-3	Aniline	ND		mg/kg dry	0.193	0.387	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 NELAC-NY10854,NJDEP,PADEP	KH
120-12-7	**Anthracene**	**0.334**		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 NELAC-NY10854,NJDEP,PADEP	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 NELAC-NY10854,NJDEP,PADEP	KH
92-87-5	Benzidine	ND		mg/kg dry	0.193	0.387	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,PADEP	KH
56-55-3	**Benzo(a)anthracene**	**1.11**		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
50-32-8	**Benzo(a)pyrene**	**1.16**		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
205-99-2	**Benzo(b)fluoranthene**	**0.949**		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.798**		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
207-08-9	**Benzo(k)fluoranthene**	**0.902**		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 NELAC-NY10854,NJDEP,PADEP	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB001 (2-4) **York Sample ID:** 19E0591-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:25 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0966	0.193	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 NELAC-NY10854,NJDEP,PADEP	KH
86-74-8	**Carbazole**	**0.105**		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
218-01-9	**Chrysene**	**0.991**		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
53-70-3	**Dibenzo(a,h)anthracene**	**0.212**		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
132-64-9	**Dibenzofuran**	**0.0564**	J	mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
206-44-0	**Fluoranthene**	**2.13**		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
86-73-7	**Fluorene**	**0.105**		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 NELAC-NY10854,NJDEP,PADEP	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.890**		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
91-20-3	**Naphthalene**	**0.0571**	J	mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 17:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB001 (2-4) **York Sample ID:** 19E0591-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:25 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
85-01-8	**Phenanthrene**	**1.28**		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
108-95-2	Phenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
129-00-0	**Pyrene**	**1.66**		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH
110-86-1	Pyridine	ND		mg/kg dry	0.193	0.387	2	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 17:32	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*62.0 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*64.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*68.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*64.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*72.1 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*66.6 %*	*24-116*

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	0.00192	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:04	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00192	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:04	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00192	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:04	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00192	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:04	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00192	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:04	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00192	5	EPA 8081B Certifications:	05/20/2019 08:00 NELAC-NY10854,NJDEP	05/22/2019 22:04	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00192	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:04	CM

Sample Information

Client Sample ID: SB001 (2-4) **York Sample ID:** 19E0591-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:25 am	05/13/2019

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
319-86-8	delta-BHC	ND		mg/kg dry	0.00192	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:04	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00192	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:04	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00192	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:04	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00192	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	05/20/2019 08:00	05/22/2019 22:04	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00192	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:04	CM
72-20-8	Endrin	ND		mg/kg dry	0.00192	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:04	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00192	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:04	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00192	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:04	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00192	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:04	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00192	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 08:00	05/22/2019 22:04	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00192	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:04	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00192	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:04	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00192	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:04	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.192	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:04	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0384	5	EPA 8081B Certifications:	05/20/2019 08:00	05/22/2019 22:04	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*116 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*61.3 %*	*30-150*

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	0.0194	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/23/2019 00:26	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/23/2019 00:26	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/23/2019 00:26	SR

Sample Information

Client Sample ID: SB001 (2-4) **York Sample ID:** 19E0591-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:25 am	05/13/2019

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
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/23/2019 00:26	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/23/2019 00:26	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/23/2019 00:26	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/23/2019 00:26	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications:	05/20/2019 08:00	05/23/2019 00:26	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*68.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*64.0 %*	*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**	**10000**		mg/kg dry	5.83	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:15	KML
7440-36-0	Antimony	ND		mg/kg dry	2.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:15	KML
7440-38-2	**Arsenic**	**4.53**		mg/kg dry	1.75	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:15	KML
7440-39-3	**Barium**	**115**		mg/kg dry	2.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:15	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.058	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:15	KML
7440-43-9	**Cadmium**	**1.36**		mg/kg dry	0.350	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:15	KML
7440-70-2	**Calcium**	**14700**		mg/kg dry	5.83	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:15	KML
7440-47-3	**Chromium**	**15.6**		mg/kg dry	0.583	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:15	KML
7440-48-4	**Cobalt**	**8.83**		mg/kg dry	0.466	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:15	KML
7440-50-8	**Copper**	**52.5**		mg/kg dry	2.33	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:15	KML
7439-89-6	**Iron**	**15900**		mg/kg dry	29.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:15	KML
7439-92-1	**Lead**	**1280**		mg/kg dry	0.583	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:15	KML
7439-95-4	**Magnesium**	**5720**		mg/kg dry	5.83	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:15	KML

Sample Information

Client Sample ID: SB001 (2-4) **York Sample ID:** 19E0591-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:25 am	05/13/2019

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
7439-96-5	**Manganese**	**279**		mg/kg dry	0.583	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:15	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**16.3**		mg/kg dry	1.17	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:15	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**2510**		mg/kg dry	5.83	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:15	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	2.91	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:15	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.583	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:15	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**432**		mg/kg dry	58.3	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:15	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	2.91	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:15	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**23.9**		mg/kg dry	1.17	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:15	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**639**		mg/kg dry	2.91	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:15	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**0.425**		mg/kg dry	0.0350	1	EPA 7473	05/22/2019 09:03	05/22/2019 12:25	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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**	**85.8**		%	0.100	1	SM 2540G	05/16/2019 22:16	05/17/2019 15:13	JTV
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB001 (4-6) **York Sample ID:** 19E0591-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:20 am	05/13/2019

Sample Information

Client Sample ID: SB001 (4-6) **York Sample ID:** 19E0591-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:20 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.511	1.02	10	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,PADEP	05/22/2019 18:01	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,PADEP	05/22/2019 18:01	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,PADEP	05/22/2019 18:01	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.511	1.02	10	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.511	1.02	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.511	1.02	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH

Sample Information

Client Sample ID: SB001 (4-6) **York Sample ID:** 19E0591-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:20 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.511	1.02	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.511	1.02	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.511	1.02	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.511	1.02	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
208-96-8	**Acenaphthylene**	**0.919**		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 NELAC-NY10854,NJDEP,PADEP	KH
62-53-3	Aniline	ND		mg/kg dry	1.02	2.05	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 NELAC-NY10854,NJDEP,PADEP	KH
120-12-7	**Anthracene**	**0.698**		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 NELAC-NY10854,NJDEP,PADEP	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 NELAC-NY10854,NJDEP,PADEP	KH
92-87-5	Benzidine	ND		mg/kg dry	1.02	2.05	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,PADEP	KH
56-55-3	**Benzo(a)anthracene**	**3.12**		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
50-32-8	**Benzo(a)pyrene**	**3.51**		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
205-99-2	**Benzo(b)fluoranthene**	**3.20**		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
191-24-2	**Benzo(g,h,i)perylene**	**2.33**		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
207-08-9	**Benzo(k)fluoranthene**	**2.68**		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 NELAC-NY10854,NJDEP,PADEP	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB001 (4-6) **York Sample ID:** 19E0591-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:20 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.511	1.02	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 NELAC-NY10854,NJDEP,PADEP	KH
86-74-8	Carbazole	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
218-01-9	**Chrysene**	**2.58**		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
53-70-3	**Dibenzo(a,h)anthracene**	**0.727**		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
206-44-0	**Fluoranthene**	**4.70**		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
86-73-7	Fluorene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 NELAC-NY10854,NJDEP,PADEP	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**2.81**		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
78-59-1	Isophorone	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 18:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB001 (4-6) **York Sample ID:** 19E0591-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:20 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
85-01-8	**Phenanthrene**	**2.01**		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
108-95-2	Phenol	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
129-00-0	**Pyrene**	**3.45**		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH
110-86-1	Pyridine	ND		mg/kg dry	1.02	2.05	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 18:01	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*48.8 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*59.4 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*64.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*64.8 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*21.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*68.0 %*	*24-116*

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	0.00203	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:07	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:07	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:07	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:07	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:07	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications:	05/20/2019 08:00 NELAC-NY10854,NJDEP	05/21/2019 20:07	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:07	CM

Sample Information

Client Sample ID: SB001 (4-6) **York Sample ID:** 19E0591-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:20 am	05/13/2019

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
319-86-8	delta-BHC	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:07	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:07	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:07	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854	05/21/2019 20:07	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:07	CM
72-20-8	Endrin	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:07	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:07	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:07	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:07	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications:	05/20/2019 08:00 NELAC-NY10854,NJDEP	05/21/2019 20:07	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:07	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:07	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:07	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.203	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:07	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0405	5	EPA 8081B Certifications:	05/20/2019 08:00	05/21/2019 20:07	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*64.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*41.4 %*	*30-150*

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	0.0205	1	EPA 8082A Certifications:	05/20/2019 08:00 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/22/2019 11:05	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0205	1	EPA 8082A Certifications:	05/20/2019 08:00 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/22/2019 11:05	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0205	1	EPA 8082A Certifications:	05/20/2019 08:00 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/22/2019 11:05	SR

Sample Information

Client Sample ID: SB001 (4-6) **York Sample ID:** 19E0591-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:20 am	05/13/2019

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
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0205	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 11:05	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0205	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 11:05	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0205	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 11:05	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0205	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 11:05	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0205	1	EPA 8082A Certifications:	05/20/2019 08:00	05/22/2019 11:05	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*68.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*71.0 %*	*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**	**9650**		mg/kg dry	6.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:17	KML
7440-36-0	Antimony	ND		mg/kg dry	3.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:17	KML
7440-38-2	**Arsenic**	**4.98**		mg/kg dry	1.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:17	KML
7440-39-3	**Barium**	**100**		mg/kg dry	3.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:17	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.062	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:17	KML
7440-43-9	**Cadmium**	**0.963**		mg/kg dry	0.370	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:17	KML
7440-70-2	**Calcium**	**16700**		mg/kg dry	6.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:17	KML
7440-47-3	**Chromium**	**17.7**		mg/kg dry	0.616	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:17	KML
7440-48-4	**Cobalt**	**9.92**		mg/kg dry	0.493	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:17	KML
7440-50-8	**Copper**	**50.6**		mg/kg dry	2.47	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:17	KML
7439-89-6	**Iron**	**17600**		mg/kg dry	30.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:17	KML
7439-92-1	**Lead**	**464**		mg/kg dry	0.616	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:17	KML
7439-95-4	**Magnesium**	**6990**		mg/kg dry	6.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:17	KML

Sample Information

Client Sample ID: SB001 (4-6) **York Sample ID:** 19E0591-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:20 am	05/13/2019

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
7439-96-5	**Manganese**	**487**		mg/kg dry	0.616	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:17	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**18.8**		mg/kg dry	1.23	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:17	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**2230**		mg/kg dry	6.16	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:17	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	3.08	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:17	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.616	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:17	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**234**		mg/kg dry	61.6	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:17	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.08	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:17	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**25.7**		mg/kg dry	1.23	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:17	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**410**		mg/kg dry	3.08	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:17	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**0.708**		mg/kg dry	0.0370	1	EPA 7473	05/22/2019 09:03	05/22/2019 12:34	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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**	**81.1**		%	0.100	1	SM 2540G	05/16/2019 22:16	05/17/2019 15:13	JTV
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB002 (4-6) **York Sample ID:** 19E0591-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:30 am	05/13/2019

Sample Information

Client Sample ID: SB002 (4-6) **York Sample ID:** 19E0591-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:30 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	1.34	2.66	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	2.66	5.32	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	2.66	5.32	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	2.66	5.32	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	2.66	5.32	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH

Sample Information

Client Sample ID: SB002 (4-6) **York Sample ID:** 19E0591-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:30 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	2.66	5.32	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	2.66	5.32	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	2.66	5.32	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	2.66	5.32	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
83-32-9	Acenaphthene	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
98-86-2	Acetophenone	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 NELAC-NY10854,NJDEP,PADEP	KH
62-53-3	Aniline	ND		mg/kg dry	5.34	10.7	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 NELAC-NY10854,NJDEP,PADEP	KH
120-12-7	Anthracene	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
1912-24-9	Atrazine	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 NELAC-NY10854,NJDEP,PADEP	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 NELAC-NY10854,NJDEP,PADEP	KH
92-87-5	Benzidine	ND		mg/kg dry	5.34	10.7	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,PADEP	KH
56-55-3	**Benzo(a)anthracene**	**3.13**		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
50-32-8	**Benzo(a)pyrene**	**3.00**		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
205-99-2	**Benzo(b)fluoranthene**	**2.30**	J	mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
191-24-2	**Benzo(g,h,i)perylene**	**1.94**	J	mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
207-08-9	**Benzo(k)fluoranthene**	**2.30**	J	mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
65-85-0	Benzoic acid	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 NELAC-NY10854,NJDEP,PADEP	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB002 (4-6) **York Sample ID:** 19E0591-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:30 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
105-60-2	Caprolactam	ND		mg/kg dry	2.66	5.32	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 NELAC-NY10854,NJDEP,PADEP	KH
86-74-8	Carbazole	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
218-01-9	**Chrysene**	**2.68**		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
206-44-0	**Fluoranthene**	**5.15**		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
86-73-7	Fluorene	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 NELAC-NY10854,NJDEP,PADEP	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**2.15**	J	mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
78-59-1	Isophorone	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
91-20-3	Naphthalene	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10	05/22/2019 15:36 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB002 (4-6) **York Sample ID:** 19E0591-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:30 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 15:36	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 15:36	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 15:36	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 15:36	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 15:36	KH
85-01-8	**Phenanthrene**	**2.68**		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 15:36	KH
108-95-2	Phenol	ND		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 15:36	KH
129-00-0	**Pyrene**	**4.79**		mg/kg dry	1.34	2.66	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 15:36	KH
110-86-1	Pyridine	ND		mg/kg dry	5.34	10.7	10	EPA 8270D Certifications:	05/20/2019 08:10 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 15:36	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*48.0 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*51.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*66.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*68.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*69.0 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*74.0 %*	*24-116*

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	0.00212	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:19	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:19	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:19	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:19	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:19	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications:	05/20/2019 08:00 NELAC-NY10854,NJDEP	05/22/2019 22:19	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:19	CM

Sample Information

Client Sample ID: SB002 (4-6) **York Sample ID:** 19E0591-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:30 am	05/13/2019

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
319-86-8	delta-BHC	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:19	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:19	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:19	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854	05/22/2019 22:19	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:19	CM
72-20-8	Endrin	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:19	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:19	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:19	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:19	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications:	05/20/2019 08:00 NELAC-NY10854,NJDEP	05/22/2019 22:19	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:19	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:19	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:19	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.212	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:19	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0425	5	EPA 8081B Certifications:	05/20/2019 08:00	05/22/2019 22:19	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*108 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*62.5 %*	*30-150*

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	0.0214	1	EPA 8082A Certifications:	05/20/2019 08:00 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 00:40	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	05/20/2019 08:00 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 00:40	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	05/20/2019 08:00 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 00:40	SR

Sample Information

Client Sample ID: SB002 (4-6) **York Sample ID:** 19E0591-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:30 am	05/13/2019

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
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/23/2019 00:40	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/23/2019 00:40	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/23/2019 00:40	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/23/2019 00:40	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	05/20/2019 08:00	05/23/2019 00:40	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*69.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*68.5 %*	*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**	**5850**		mg/kg dry	6.45	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:20	KML
7440-36-0	Antimony	ND		mg/kg dry	3.23	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:20	KML
7440-38-2	**Arsenic**	**7.26**		mg/kg dry	1.94	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:20	KML
7440-39-3	**Barium**	**245**		mg/kg dry	3.23	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:20	KML
7440-41-7	**Beryllium**	**0.113**	B	mg/kg dry	0.065	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:20	KML
7440-43-9	**Cadmium**	**1.18**		mg/kg dry	0.387	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:20	KML
7440-70-2	**Calcium**	**19900**		mg/kg dry	6.45	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:20	KML
7440-47-3	**Chromium**	**17.0**		mg/kg dry	0.645	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:20	KML
7440-48-4	**Cobalt**	**8.27**		mg/kg dry	0.516	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:20	KML
7440-50-8	**Copper**	**151**		mg/kg dry	2.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:20	KML
7439-89-6	**Iron**	**16400**		mg/kg dry	32.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:20	KML
7439-92-1	**Lead**	**459**		mg/kg dry	0.645	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:20	KML

Sample Information

Client Sample ID: SB002 (4-6) **York Sample ID:** 19E0591-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:30 am	05/13/2019

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
7439-95-4	**Magnesium**	**7800**		mg/kg dry	6.45	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**266**		mg/kg dry	0.645	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**18.9**		mg/kg dry	1.29	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1500**		mg/kg dry	6.45	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	3.23	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.645	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**292**		mg/kg dry	64.5	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.23	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**25.7**		mg/kg dry	1.29	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**446**		mg/kg dry	3.23	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**0.616**		mg/kg dry	0.0387	1	EPA 7473	05/22/2019 09:03	05/22/2019 13:33	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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**	**77.5**		%	0.100	1	SM 2540G	05/16/2019 22:16	05/17/2019 15:13	JTV
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB002 (6-8) **York Sample ID:** 19E0591-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:50 am	05/13/2019

Sample Information

Client Sample ID: SB002 (6-8) **York Sample ID:** 19E0591-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:50 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

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	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.102	0.203	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/22/2019 20:56	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/22/2019 20:56	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/22/2019 20:56	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.102	0.203	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.102	0.203	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.102	0.203	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH

Sample Information

Client Sample ID: SB002 (6-8) **York Sample ID:** 19E0591-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:50 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.102	0.203	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.102	0.203	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.102	0.203	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.102	0.203	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 NELAC-NY10854,NJDEP,PADEP	KH
62-53-3	Aniline	ND		mg/kg dry	0.204	0.408	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 NELAC-NY10854,NJDEP,PADEP	KH
120-12-7	**Anthracene**	**0.0903**	J	mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 NELAC-NY10854,NJDEP,PADEP	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 NELAC-NY10854,NJDEP,PADEP	KH
92-87-5	Benzidine	ND		mg/kg dry	0.204	0.408	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,PADEP	KH
56-55-3	**Benzo(a)anthracene**	**0.277**		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
50-32-8	**Benzo(a)pyrene**	**0.279**		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
205-99-2	**Benzo(b)fluoranthene**	**0.200**		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.168**		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
207-08-9	**Benzo(k)fluoranthene**	**0.177**		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 NELAC-NY10854,NJDEP,PADEP	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB002 (6-8) **York Sample ID:** 19E0591-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:50 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.102	0.203	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 NELAC-NY10854,NJDEP,PADEP	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
218-01-9	**Chrysene**	**0.252**		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
206-44-0	**Fluoranthene**	**0.466**		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
86-73-7	Fluorene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 NELAC-NY10854,NJDEP,PADEP	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.196**		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 20:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB002 (6-8) **York Sample ID:** 19E0591-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:50 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
85-01-8	**Phenanthrene**	**0.317**		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
108-95-2	Phenol	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
129-00-0	**Pyrene**	**0.471**		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH
110-86-1	Pyridine	ND		mg/kg dry	0.204	0.408	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:56	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*66.6 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*60.4 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*64.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*49.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*48.3 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*48.0 %*	*24-116*

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	0.00201	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:22	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00201	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:22	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00201	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:22	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00201	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:22	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00201	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:22	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00201	5	EPA 8081B Certifications:	05/20/2019 08:00 NELAC-NY10854,NJDEP	05/21/2019 20:22	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00201	5	EPA 8081B Certifications:	05/20/2019 08:00 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 20:22	CM

Sample Information

Client Sample ID: SB002 (6-8) **York Sample ID:** 19E0591-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:50 am	05/13/2019

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
319-86-8	delta-BHC	ND		mg/kg dry	0.00201	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:22	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00201	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:22	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00201	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:22	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00201	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	05/20/2019 08:00	05/21/2019 20:22	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00201	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:22	CM
72-20-8	Endrin	ND		mg/kg dry	0.00201	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:22	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00201	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:22	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00201	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:22	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00201	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:22	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00201	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 08:00	05/21/2019 20:22	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00201	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:22	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00201	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:22	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00201	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:22	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.201	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:22	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0403	5	EPA 8081B Certifications:	05/20/2019 08:00	05/21/2019 20:22	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*88.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*57.0 %*	*30-150*

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	0.0203	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 11:19	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0203	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 11:19	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0203	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 11:19	SR

Sample Information

Client Sample ID: SB002 (6-8) **York Sample ID:** 19E0591-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:50 am	05/13/2019

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
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0203	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 11:19	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0203	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 11:19	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0203	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 11:19	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0203	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 11:19	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0203	1	EPA 8082A Certifications:	05/20/2019 08:00	05/22/2019 11:19	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*55.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*54.5 %*	*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**	**5280**		mg/kg dry	6.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:26	KML
7440-36-0	Antimony	ND		mg/kg dry	3.06	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:26	KML
7440-38-2	**Arsenic**	**11.7**		mg/kg dry	1.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:26	KML
7440-39-3	**Barium**	**73.5**		mg/kg dry	3.06	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:26	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.061	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:26	KML
7440-43-9	**Cadmium**	**0.431**		mg/kg dry	0.367	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:26	KML
7440-70-2	**Calcium**	**3340**		mg/kg dry	6.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:26	KML
7440-47-3	**Chromium**	**20.3**		mg/kg dry	0.612	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:26	KML
7440-48-4	**Cobalt**	**12.8**		mg/kg dry	0.490	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:26	KML
7440-50-8	**Copper**	**52.4**		mg/kg dry	2.45	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:26	KML
7439-89-6	**Iron**	**29000**		mg/kg dry	30.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:26	KML
7439-92-1	**Lead**	**137**		mg/kg dry	0.612	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:26	KML
7439-95-4	**Magnesium**	**2110**		mg/kg dry	6.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:26	KML

Sample Information

Client Sample ID: SB002 (6-8) **York Sample ID:** 19E0591-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:50 am	05/13/2019

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
7439-96-5	**Manganese**	**277**		mg/kg dry	0.612	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:26	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	**Nickel**	**21.4**		mg/kg dry	1.22	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:26	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**1720**		mg/kg dry	6.12	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:26	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		mg/kg dry	3.06	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:26	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/kg dry	0.612	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:26	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**525**		mg/kg dry	61.2	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:26	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		mg/kg dry	3.06	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:26	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	**Vanadium**	**51.5**		mg/kg dry	1.22	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:26	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**94.8**		mg/kg dry	3.06	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:26	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

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**	**0.236**		mg/kg dry	0.0367	1	EPA 7473	05/22/2019 09:03	05/22/2019 14:14	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,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**	**81.7**		%	0.100	1	SM 2540G	05/16/2019 22:16	05/17/2019 15:13	JTV
							Certifications:	CTDOH		

Sample Information

Client Sample ID: SB002 (0-2) **York Sample ID:** 19E0591-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:45 am	05/13/2019

Sample Information

Client Sample ID: SB002 (0-2) **York Sample ID:** 19E0591-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:45 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.813	1.62	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/22/2019 21:26	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/22/2019 21:26	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/22/2019 21:26	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.813	1.62	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.813	1.62	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.813	1.62	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH

Sample Information

Client Sample ID: SB002 (0-2) **York Sample ID:** 19E0591-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:45 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.813	1.62	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.813	1.62	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.813	1.62	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.813	1.62	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 NELAC-NY10854,NJDEP,PADEP	KH
62-53-3	Aniline	ND		mg/kg dry	1.63	3.25	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 NELAC-NY10854,NJDEP,PADEP	KH
120-12-7	Anthracene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 NELAC-NY10854,NJDEP,PADEP	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 NELAC-NY10854,NJDEP,PADEP	KH
92-87-5	Benzidine	ND		mg/kg dry	1.63	3.25	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 CTDOH,NELAC-NY10854,PADEP	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 NELAC-NY10854,NJDEP,PADEP	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:26 NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB002 (0-2) **York Sample ID:** 19E0591-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:45 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	**Benzyl butyl phthalate**	**9.01**		mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.669**	J	mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-60-2	Caprolactam	ND		mg/kg dry	0.813	1.62	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	Carbazole	ND		mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	Chrysene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	**Di-n-butyl phthalate**	**0.533**	J	mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	**Fluoranthene**	**0.676**	J	mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	Fluorene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	Naphthalene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D	05/20/2019 14:37	05/22/2019 21:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: SB002 (0-2) **York Sample ID:** 19E0591-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:45 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
85-01-8	**Phenanthrene**	**0.598**	J	mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
108-95-2	Phenol	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
129-00-0	**Pyrene**	**0.669**	J	mg/kg dry	0.407	0.813	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH
110-86-1	Pyridine	ND		mg/kg dry	1.63	3.25	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:26	KH

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*58.8 %*		*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*62.1 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*61.8 %*		*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*57.6 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*18.3 %*	S-01	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*64.2 %*		*24-116*

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	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:49	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:49	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:49	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:49	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:49	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 NELAC-NY10854,NJDEP	05/23/2019 00:49	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:49	CM

Sample Information

Client Sample ID: SB002 (0-2) **York Sample ID:** 19E0591-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:45 am	05/13/2019

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
319-86-8	delta-BHC	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:49	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:49	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:49	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854	05/23/2019 00:49	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:49	CM
72-20-8	Endrin	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:49	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:49	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:49	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:49	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 NELAC-NY10854,NJDEP	05/23/2019 00:49	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:49	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:49	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:49	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:49	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0429	5	EPA 8081B Certifications:	05/20/2019 14:33	05/23/2019 00:49	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*132 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*79.7 %*	*30-150*

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	0.0216	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 00:53	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0216	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 00:53	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0216	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 00:53	SR

Sample Information

Client Sample ID: SB002 (0-2) **York Sample ID:** 19E0591-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:45 am	05/13/2019

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
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0216	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:53	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0216	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:53	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0216	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:53	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0216	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:53	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0216	1	EPA 8082A Certifications:	05/20/2019 14:33	05/23/2019 00:53	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*75.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*73.0 %*	*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**	**6690**		mg/kg dry	6.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:33	KML
7440-36-0	Antimony	ND		mg/kg dry	3.28	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:33	KML
7440-38-2	**Arsenic**	**2.59**		mg/kg dry	1.97	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:33	KML
7440-39-3	**Barium**	**103**		mg/kg dry	3.28	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:33	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.066	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:33	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.394	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:33	KML
7440-70-2	**Calcium**	**36000**		mg/kg dry	6.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:33	KML
7440-47-3	**Chromium**	**12.1**		mg/kg dry	0.656	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:33	KML
7440-48-4	**Cobalt**	**4.98**		mg/kg dry	0.525	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:33	KML
7440-50-8	**Copper**	**26.9**		mg/kg dry	2.62	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:33	KML
7439-89-6	**Iron**	**9370**		mg/kg dry	32.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:33	KML
7439-92-1	**Lead**	**56.0**		mg/kg dry	0.656	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:33	KML
7439-95-4	**Magnesium**	**6060**		mg/kg dry	6.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:33	KML

Sample Information

Client Sample ID: SB002 (0-2) **York Sample ID:** 19E0591-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:45 am	05/13/2019

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
7439-96-5	**Manganese**	**176**		mg/kg dry	0.656	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:33	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**10.7**		mg/kg dry	1.31	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:33	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1350**		mg/kg dry	6.56	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:33	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	3.28	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:33	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.656	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:33	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**478**		mg/kg dry	65.6	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:33	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.28	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:33	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**20.6**		mg/kg dry	1.31	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:33	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**96.1**		mg/kg dry	3.28	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:33	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**0.272**		mg/kg dry	0.0394	1	EPA 7473	05/22/2019 09:04	05/22/2019 16:34	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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**	**76.2**		%	0.100	1	SM 2540G	05/16/2019 22:16	05/17/2019 15:13	JTV
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB003 (6-8) **York Sample ID:** 19E0591-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:35 am	05/13/2019

Sample Information

Client Sample ID: SB003 (6-8) **York Sample ID:** 19E0591-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:35 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	05/20/2019 14:37	05/22/2019 19:25	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	05/20/2019 14:37	05/22/2019 19:25	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/22/2019 19:25	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	05/20/2019 14:37	05/22/2019 19:25	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/22/2019 19:25	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	05/20/2019 14:37	05/22/2019 19:25	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	05/20/2019 14:37	05/22/2019 19:25	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	05/20/2019 14:37	05/22/2019 19:25	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0925	0.185	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0925	0.185	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH

Sample Information

Client Sample ID: SB003 (6-8) **York Sample ID:** 19E0591-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:35 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0925	0.185	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0925	0.185	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0925	0.185	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0925	0.185	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
83-32-9	**Acenaphthene**	**0.0761**	J	mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 NELAC-NY10854,NJDEP,PADEP	KH
62-53-3	Aniline	ND		mg/kg dry	0.185	0.370	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 NELAC-NY10854,NJDEP,PADEP	KH
120-12-7	**Anthracene**	**0.191**		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 NELAC-NY10854,NJDEP,PADEP	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 NELAC-NY10854,NJDEP,PADEP	KH
92-87-5	Benzidine	ND		mg/kg dry	0.185	0.370	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 CTDOH,NELAC-NY10854,PADEP	KH
56-55-3	**Benzo(a)anthracene**	**0.370**		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
50-32-8	**Benzo(a)pyrene**	**0.352**		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
205-99-2	**Benzo(b)fluoranthene**	**0.240**		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.157**		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
207-08-9	**Benzo(k)fluoranthene**	**0.230**		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 NELAC-NY10854,NJDEP,PADEP	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 19:25 NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB003 (6-8) **York Sample ID:** 19E0591-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:35 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0925	0.185	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
86-74-8	**Carbazole**	**0.0480**	J	mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
218-01-9	**Chrysene**	**0.313**		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
132-64-9	**Dibenzofuran**	**0.0466**	J	mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
206-44-0	**Fluoranthene**	**0.838**		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
86-73-7	**Fluorene**	**0.0710**	J	mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.204**		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH

Sample Information

Client Sample ID: SB003 (6-8) **York Sample ID:** 19E0591-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:35 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
85-01-8	**Phenanthrene**	**0.733**		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
108-95-2	Phenol	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
129-00-0	**Pyrene**	**0.725**		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH
110-86-1	Pyridine	ND		mg/kg dry	0.185	0.370	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:25	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*82.4 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*73.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*74.7 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*62.1 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*53.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*66.5 %*	*24-116*

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	0.00184	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:49	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00184	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:49	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00184	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:49	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00184	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:49	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00184	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:49	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00184	5	EPA 8081B Certifications:	05/20/2019 14:33 NELAC-NY10854,NJDEP	05/22/2019 19:49	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00184	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 19:49	CM

Sample Information

Client Sample ID: SB003 (6-8) **York Sample ID:** 19E0591-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:35 am	05/13/2019

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
319-86-8	delta-BHC	ND		mg/kg dry	0.00184	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 19:49	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00184	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 19:49	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00184	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 19:49	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00184	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	05/20/2019 14:33	05/22/2019 19:49	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00184	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 19:49	CM
72-20-8	Endrin	ND		mg/kg dry	0.00184	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 19:49	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00184	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 19:49	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00184	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 19:49	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00184	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 19:49	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00184	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	05/22/2019 19:49	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00184	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 19:49	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00184	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 19:49	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00184	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 19:49	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.184	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 19:49	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0368	5	EPA 8081B Certifications:	05/20/2019 14:33	05/22/2019 19:49	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*98.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.8 %*	*30-150*

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	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 10:36	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 10:36	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 10:36	SR

Sample Information

Client Sample ID: SB003 (6-8) **York Sample ID:** 19E0591-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:35 am	05/13/2019

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
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 10:36	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 10:36	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 10:36	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 10:36	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications:	05/20/2019 14:33	05/23/2019 10:36	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*69.0 %*	*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**	**10100**		mg/kg dry	5.62	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 17:54	KML
7440-36-0	Antimony	ND		mg/kg dry	2.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 17:54	KML
7440-38-2	**Arsenic**	**3.78**		mg/kg dry	1.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 17:54	KML
7440-39-3	**Barium**	**103**		mg/kg dry	2.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 17:54	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.056	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 17:54	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.337	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 17:54	KML
7440-70-2	**Calcium**	**2930**		mg/kg dry	5.62	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 17:54	KML
7440-47-3	**Chromium**	**22.0**		mg/kg dry	0.562	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 17:54	KML
7440-48-4	**Cobalt**	**11.9**		mg/kg dry	0.449	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 17:54	KML
7440-50-8	**Copper**	**24.5**		mg/kg dry	2.25	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 17:54	KML
7439-89-6	**Iron**	**25600**		mg/kg dry	28.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 17:54	KML
7439-92-1	**Lead**	**53.9**		mg/kg dry	0.562	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 17:54	KML
7439-95-4	**Magnesium**	**3830**		mg/kg dry	5.62	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 17:54	KML

Sample Information

Client Sample ID: SB003 (6-8) **York Sample ID:** 19E0591-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:35 am	05/13/2019

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
7439-96-5	**Manganese**	**457**		mg/kg dry	0.562	1	EPA 6010D	05/20/2019 14:51	05/20/2019 17:54	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**22.5**		mg/kg dry	1.12	1	EPA 6010D	05/20/2019 14:51	05/20/2019 17:54	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**3390**		mg/kg dry	5.62	1	EPA 6010D	05/20/2019 14:51	05/20/2019 17:54	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	2.81	1	EPA 6010D	05/20/2019 14:51	05/20/2019 17:54	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.562	1	EPA 6010D	05/20/2019 14:51	05/20/2019 17:54	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**306**		mg/kg dry	56.2	1	EPA 6010D	05/20/2019 14:51	05/20/2019 17:54	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	2.81	1	EPA 6010D	05/20/2019 14:51	05/20/2019 17:54	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**30.8**		mg/kg dry	1.12	1	EPA 6010D	05/20/2019 14:51	05/20/2019 17:54	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**57.6**		mg/kg dry	2.81	1	EPA 6010D	05/20/2019 14:51	05/20/2019 17:54	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**0.323**		mg/kg dry	0.0337	1	EPA 7473	05/22/2019 09:04	05/22/2019 15:32	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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**	**89.0**		%	0.100	1	SM 2540G	05/17/2019 18:08	05/18/2019 15:54	TJM
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB003 (10-12) **York Sample ID:** 19E0591-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:45 am	05/13/2019

Sample Information

Client Sample ID: SB003 (10-12) **York Sample ID:** 19E0591-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:45 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/22/2019 21:56	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/22/2019 21:56	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/22/2019 21:56	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH

Sample Information

Client Sample ID: SB003 (10-12) **York Sample ID:** 19E0591-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:45 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 NELAC-NY10854,NJDEP,PADEP	KH
62-53-3	Aniline	ND		mg/kg dry	0.212	0.425	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 NELAC-NY10854,NJDEP,PADEP	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 NELAC-NY10854,NJDEP,PADEP	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 NELAC-NY10854,NJDEP,PADEP	KH
92-87-5	Benzidine	ND		mg/kg dry	0.212	0.425	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,PADEP	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 NELAC-NY10854,NJDEP,PADEP	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB003 (10-12) **York Sample ID:** 19E0591-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:45 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 NELAC-NY10854,NJDEP,PADEP	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
86-73-7	Fluorene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 NELAC-NY10854,NJDEP,PADEP	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 21:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB003 (10-12) **York Sample ID:** 19E0591-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:45 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
108-95-2	Phenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH
110-86-1	Pyridine	ND		mg/kg dry	0.212	0.425	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 21:56	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*72.4 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*64.9 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*66.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*54.1 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*45.7 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*59.0 %*	*24-116*

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:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:04	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:04	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:04	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:04	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:04	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications:	05/20/2019 14:33 NELAC-NY10854,NJDEP	05/22/2019 20:04	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:04	CM

Sample Information

Client Sample ID: SB003 (10-12) **York Sample ID:** 19E0591-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:45 am	05/13/2019

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
319-86-8	delta-BHC	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:04	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:04	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:04	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	05/20/2019 14:33	05/22/2019 20:04	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:04	CM
72-20-8	Endrin	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:04	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:04	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:04	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:04	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	05/22/2019 20:04	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:04	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:04	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:04	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.211	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:04	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0421	5	EPA 8081B Certifications:	05/20/2019 14:33	05/22/2019 20:04	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*96.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*96.2 %*	*30-150*

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	05/20/2019 14:33	05/23/2019 10:50	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0213	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 10:50	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0213	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 10:50	SR

Sample Information

Client Sample ID: SB003 (10-12) **York Sample ID:** 19E0591-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:45 am	05/13/2019

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
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0213	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 10:50	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0213	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 10:50	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0213	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 10:50	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0213	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 10:50	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0213	1	EPA 8082A Certifications:	05/20/2019 14:33	05/23/2019 10:50	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*69.0 %*	*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**	**6720**		mg/kg dry	6.40	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:00	KML
7440-36-0	Antimony	ND		mg/kg dry	3.20	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:00	KML
7440-38-2	**Arsenic**	**2.06**		mg/kg dry	1.92	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:00	KML
7440-39-3	**Barium**	**39.4**		mg/kg dry	3.20	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:00	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.064	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:00	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.384	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:00	KML
7440-70-2	**Calcium**	**2210**		mg/kg dry	6.40	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:00	KML
7440-47-3	**Chromium**	**17.1**		mg/kg dry	0.640	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:00	KML
7440-48-4	**Cobalt**	**6.95**		mg/kg dry	0.512	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:00	KML
7440-50-8	**Copper**	**17.7**		mg/kg dry	2.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:00	KML
7439-89-6	**Iron**	**13600**		mg/kg dry	32.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:00	KML
7439-92-1	**Lead**	**54100**		mg/kg dry	12.8	20	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/21/2019 13:03	KML
7439-95-4	**Magnesium**	**3440**		mg/kg dry	6.40	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:00	KML

Sample Information

Client Sample ID: SB003 (10-12) **York Sample ID:** 19E0591-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:45 am	05/13/2019

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
7439-96-5	**Manganese**	**108**		mg/kg dry	0.640	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:00	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**16.7**		mg/kg dry	1.28	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:00	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1660**		mg/kg dry	6.40	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:00	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	3.20	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:00	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.640	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:00	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**311**		mg/kg dry	64.0	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:00	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.20	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:00	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**23.1**		mg/kg dry	1.28	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:00	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**30.9**		mg/kg dry	3.20	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:00	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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	0.0384	1	EPA 7473	05/22/2019 09:04	05/22/2019 16:42	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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**	**78.1**		%	0.100	1	SM 2540G	05/16/2019 22:16	05/17/2019 15:13	JTV
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB003 (0-2) **York Sample ID:** 19E0591-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:40 am	05/13/2019

Sample Information

Client Sample ID: SB003 (0-2) **York Sample ID:** 19E0591-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:40 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.693	1.38	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/22/2019 22:26	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/22/2019 22:26	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/22/2019 22:26	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.693	1.38	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.693	1.38	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.693	1.38	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH

Sample Information

Client Sample ID: SB003 (0-2) **York Sample ID:** 19E0591-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:40 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.693	1.38	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.693	1.38	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.693	1.38	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.693	1.38	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
208-96-8	**Acenaphthylene**	**1.05**		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 NELAC-NY10854,NJDEP,PADEP	KH
62-53-3	Aniline	ND		mg/kg dry	1.39	2.78	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 NELAC-NY10854,NJDEP,PADEP	KH
120-12-7	**Anthracene**	**1.63**		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 NELAC-NY10854,NJDEP,PADEP	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 NELAC-NY10854,NJDEP,PADEP	KH
92-87-5	Benzidine	ND		mg/kg dry	1.39	2.78	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 CTDOH,NELAC-NY10854,PADEP	KH
56-55-3	**Benzo(a)anthracene**	**7.80**		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
50-32-8	**Benzo(a)pyrene**	**7.08**		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
205-99-2	**Benzo(b)fluoranthene**	**6.38**		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
191-24-2	**Benzo(g,h,i)perylene**	**4.17**		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
207-08-9	**Benzo(k)fluoranthene**	**5.00**		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 NELAC-NY10854,NJDEP,PADEP	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:26 NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB003 (0-2) **York Sample ID:** 19E0591-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:40 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
117-81-7	**Bis(2-ethylhexyl)phthalate**	**70.7**		mg/kg dry	3.47	6.93	100	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 11:16	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.693	1.38	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
86-74-8	Carbazole	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
218-01-9	**Chrysene**	**7.17**		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
53-70-3	**Dibenzo(a,h)anthracene**	**1.24**		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
206-44-0	**Fluoranthene**	**15.2**		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
86-73-7	Fluorene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**5.28**		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
78-59-1	Isophorone	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH

Sample Information

Client Sample ID: SB003 (0-2) **York Sample ID:** 19E0591-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:40 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
85-01-8	**Phenanthrene**	**6.05**		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
108-95-2	Phenol	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
129-00-0	**Pyrene**	**13.7**		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH
110-86-1	Pyridine	ND		mg/kg dry	1.39	2.78	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:26	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*66.6 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*63.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*66.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*58.8 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*51.3 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*66.6 %*	*24-116*

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	0.00183	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:04	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:04	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:04	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:04	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:04	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications:	05/20/2019 14:33 NELAC-NY10854,NJDEP	05/23/2019 01:04	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:04	CM

Sample Information

Client Sample ID: SB003 (0-2) **York Sample ID:** 19E0591-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:40 am	05/13/2019

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
319-86-8	delta-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:04	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:04	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:04	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854	05/23/2019 01:04	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:04	CM
72-20-8	Endrin	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:04	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:04	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:04	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:04	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications:	05/20/2019 14:33 NELAC-NY10854,NJDEP	05/23/2019 01:04	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:04	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:04	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:04	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.183	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:04	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0366	5	EPA 8081B Certifications:	05/20/2019 14:33	05/23/2019 01:04	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*84.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*55.6 %*	*30-150*

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	0.0185	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 01:07	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 01:07	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 01:07	SR

Sample Information

Client Sample ID: SB003 (0-2) **York Sample ID:** 19E0591-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:40 am	05/13/2019

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
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:07	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:07	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:07	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:07	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications:	05/20/2019 14:33	05/23/2019 01:07	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*52.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*44.0 %*	*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**	**7140**		mg/kg dry	5.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:03	KML
7440-36-0	Antimony	ND		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:03	KML
7440-38-2	**Arsenic**	**4.73**		mg/kg dry	1.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:03	KML
7440-39-3	**Barium**	**464**		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:03	KML
7440-41-7	**Beryllium**	**0.060**		mg/kg dry	0.056	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:03	KML
7440-43-9	**Cadmium**	**1.11**		mg/kg dry	0.335	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:03	KML
7440-70-2	**Calcium**	**35700**		mg/kg dry	5.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:03	KML
7440-47-3	**Chromium**	**21.9**		mg/kg dry	0.558	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:03	KML
7440-48-4	**Cobalt**	**8.62**		mg/kg dry	0.446	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:03	KML
7440-50-8	**Copper**	**94.7**		mg/kg dry	2.23	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:03	KML
7439-89-6	**Iron**	**20000**		mg/kg dry	27.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:03	KML
7439-92-1	**Lead**	**342**		mg/kg dry	0.558	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:03	KML

Sample Information

Client Sample ID: SB003 (0-2) **York Sample ID:** 19E0591-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:40 am	05/13/2019

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
7439-95-4	**Magnesium**	**6660**		mg/kg dry	5.58	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:03	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**289**		mg/kg dry	0.558	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:03	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**25.4**		mg/kg dry	1.12	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:03	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1350**		mg/kg dry	5.58	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:03	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	2.79	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:03	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.558	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:03	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**814**		mg/kg dry	55.8	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:03	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	2.79	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:03	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**27.8**		mg/kg dry	1.12	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:03	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**402**		mg/kg dry	2.79	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:03	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**0.446**		mg/kg dry	0.0335	1	EPA 7473	05/22/2019 09:04	05/22/2019 16:51	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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	05/16/2019 22:16	05/17/2019 15:13	JTV
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB004 (0-2) **York Sample ID:** 19E0591-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:30 am	05/13/2019

Sample Information

Client Sample ID: SB004 (0-2) **York Sample ID:** 19E0591-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:30 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	1.11	2.22	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/22/2019 22:56	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/22/2019 22:56	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/22/2019 22:56	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	1.11	2.22	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	1.11	2.22	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	1.11	2.22	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH

Sample Information

Client Sample ID: SB004 (0-2) **York Sample ID:** 19E0591-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:30 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	1.11	2.22	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	1.11	2.22	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	1.11	2.22	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	1.11	2.22	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
83-32-9	**Acenaphthene**	**2.32**		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 NELAC-NY10854,NJDEP,PADEP	KH
62-53-3	Aniline	ND		mg/kg dry	2.22	4.44	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 NELAC-NY10854,NJDEP,PADEP	KH
120-12-7	**Anthracene**	**4.80**		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 NELAC-NY10854,NJDEP,PADEP	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 NELAC-NY10854,NJDEP,PADEP	KH
92-87-5	Benzidine	ND		mg/kg dry	2.22	4.44	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,PADEP	KH
56-55-3	**Benzo(a)anthracene**	**8.92**		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
50-32-8	**Benzo(a)pyrene**	**7.83**		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
205-99-2	**Benzo(b)fluoranthene**	**6.63**		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
191-24-2	**Benzo(g,h,i)perylene**	**4.07**		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
207-08-9	**Benzo(k)fluoranthene**	**5.71**		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 NELAC-NY10854,NJDEP,PADEP	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB004 (0-2) **York Sample ID:** 19E0591-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:30 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.896**	J	mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
105-60-2	Caprolactam	ND		mg/kg dry	1.11	2.22	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 NELAC-NY10854,NJDEP,PADEP	KH
86-74-8	**Carbazole**	**2.07**		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
218-01-9	**Chrysene**	**7.64**		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
53-70-3	**Dibenzo(a,h)anthracene**	**1.07**	J	mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
132-64-9	**Dibenzofuran**	**1.42**		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
206-44-0	**Fluoranthene**	**20.8**		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
86-73-7	**Fluorene**	**2.08**		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 NELAC-NY10854,NJDEP,PADEP	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**5.53**		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
78-59-1	Isophorone	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
91-20-3	**Naphthalene**	**1.16**		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 22:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB004 (0-2) **York Sample ID:** 19E0591-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:30 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
85-01-8	**Phenanthrene**	**19.0**		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
108-95-2	Phenol	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
129-00-0	**Pyrene**	**17.5**		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH
110-86-1	Pyridine	ND		mg/kg dry	2.22	4.44	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 22:56	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*61.6 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*58.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*59.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*57.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*36.0 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*64.0 %*	*24-116*

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	0.00220	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:19	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:19	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:19	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:19	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:19	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications:	05/20/2019 14:33 NELAC-NY10854,NJDEP	05/23/2019 01:19	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:19	CM

Sample Information

Client Sample ID: SB004 (0-2) **York Sample ID:** 19E0591-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:30 am	05/13/2019

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
319-86-8	delta-BHC	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:19	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:19	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:19	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854	05/23/2019 01:19	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:19	CM
72-20-8	Endrin	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:19	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:19	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:19	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:19	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications:	05/20/2019 14:33 NELAC-NY10854,NJDEP	05/23/2019 01:19	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:19	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:19	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:19	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.220	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:19	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0439	5	EPA 8081B Certifications:	05/20/2019 14:33	05/23/2019 01:19	CM

	Surrogate Recoveries	Result		Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*155 %*	S-GC	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*92.4 %*		*30-150*

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	0.0222	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 01:20	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0222	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 01:20	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0222	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 01:20	SR

Sample Information

Client Sample ID: SB004 (0-2) **York Sample ID:** 19E0591-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:30 am	05/13/2019

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
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0222	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:20	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0222	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:20	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0222	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:20	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0222	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:20	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0222	1	EPA 8082A Certifications:	05/20/2019 14:33	05/23/2019 01:20	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*86.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*84.5 %*	*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**	**3770**		mg/kg dry	6.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:05	KML
7440-36-0	**Antimony**	**3.36**		mg/kg dry	3.34	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:05	KML
7440-38-2	**Arsenic**	**5.15**		mg/kg dry	2.00	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:05	KML
7440-39-3	**Barium**	**175**		mg/kg dry	3.34	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:05	KML
7440-41-7	**Beryllium**	**0.520**		mg/kg dry	0.067	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:05	KML
7440-43-9	**Cadmium**	**3.05**		mg/kg dry	0.401	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:05	KML
7440-70-2	**Calcium**	**66000**		mg/kg dry	6.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:05	KML
7440-47-3	**Chromium**	**72.2**		mg/kg dry	0.668	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:05	KML
7440-48-4	**Cobalt**	**6.18**		mg/kg dry	0.534	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:05	KML
7440-50-8	**Copper**	**224**		mg/kg dry	2.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:05	KML
7439-89-6	**Iron**	**49100**		mg/kg dry	33.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:05	KML
7439-92-1	**Lead**	**576**		mg/kg dry	0.668	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:05	KML

Sample Information

Client Sample ID: SB004 (0-2) **York Sample ID:** 19E0591-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:30 am	05/13/2019

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
7439-95-4	**Magnesium**	**13200**		mg/kg dry	6.68	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**303**		mg/kg dry	0.668	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**74.1**		mg/kg dry	1.34	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**794**		mg/kg dry	6.68	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	3.34	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.668	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**432**		mg/kg dry	66.8	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.34	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**51.2**		mg/kg dry	1.34	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**966**		mg/kg dry	3.34	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**0.289**		mg/kg dry	0.0401	1	EPA 7473	05/22/2019 09:04	05/22/2019 17:00	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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**	**74.9**		%	0.100	1	SM 2540G	05/16/2019 22:16	05/17/2019 15:13	JTV
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB004 (4-6) **York Sample ID:** 19E0591-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:35 am	05/13/2019

Sample Information

Client Sample ID: SB004 (4-6) **York Sample ID:** 19E0591-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:35 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

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	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.108	0.216	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/22/2019 23:26	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/22/2019 23:26	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/22/2019 23:26	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.108	0.216	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.108	0.216	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.108	0.216	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH

Sample Information

Client Sample ID: SB004 (4-6) **York Sample ID:** 19E0591-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:35 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.108	0.216	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.108	0.216	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.108	0.216	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.108	0.216	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
83-32-9	**Acenaphthene**	**0.136**		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
208-96-8	**Acenaphthylene**	**0.0589**	J	mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 NELAC-NY10854,NJDEP,PADEP	KH
62-53-3	Aniline	ND		mg/kg dry	0.217	0.434	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 NELAC-NY10854,NJDEP,PADEP	KH
120-12-7	**Anthracene**	**0.560**		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 NELAC-NY10854,NJDEP,PADEP	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 NELAC-NY10854,NJDEP,PADEP	KH
92-87-5	Benzidine	ND		mg/kg dry	0.217	0.434	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,PADEP	KH
56-55-3	**Benzo(a)anthracene**	**1.97**		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
50-32-8	**Benzo(a)pyrene**	**2.10**		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
205-99-2	**Benzo(b)fluoranthene**	**1.62**		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
191-24-2	**Benzo(g,h,i)perylene**	**1.22**		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
207-08-9	**Benzo(k)fluoranthene**	**1.28**		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 NELAC-NY10854,NJDEP,PADEP	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB004 (4-6) **York Sample ID:** 19E0591-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:35 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.108	0.216	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 NELAC-NY10854,NJDEP,PADEP	KH
86-74-8	**Carbazole**	**0.103**	J	mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
218-01-9	**Chrysene**	**1.82**		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
53-70-3	**Dibenzo(a,h)anthracene**	**0.288**		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
132-64-9	**Dibenzofuran**	**0.0762**	J	mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
206-44-0	**Fluoranthene**	**3.62**		mg/kg dry	0.136	0.271	5	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 11:44 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
86-73-7	**Fluorene**	**0.129**		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 NELAC-NY10854,NJDEP,PADEP	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**1.49**		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB004 (4-6) **York Sample ID:** 19E0591-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:35 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
85-01-8	**Phenanthrene**	**1.99**		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
108-95-2	Phenol	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH
129-00-0	**Pyrene**	**3.45**		mg/kg dry	0.136	0.271	5	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 11:44	KH
110-86-1	Pyridine	ND		mg/kg dry	0.217	0.434	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:26	KH

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*60.4 %*		*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*71.1 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*76.1 %*		*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*66.1 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*10.1 %*	S-08	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*70.2 %*		*24-116*

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	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:34	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:34	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:34	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:34	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:34	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 NELAC-NY10854,NJDEP	05/23/2019 01:34	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:34	CM

Sample Information

Client Sample ID: SB004 (4-6) **York Sample ID:** 19E0591-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:35 am	05/13/2019

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
319-86-8	delta-BHC	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:34	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:34	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:34	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854	05/23/2019 01:34	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:34	CM
72-20-8	Endrin	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:34	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:34	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:34	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:34	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 NELAC-NY10854,NJDEP	05/23/2019 01:34	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:34	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:34	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:34	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.214	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:34	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0427	5	EPA 8081B Certifications:	05/20/2019 14:33	05/23/2019 01:34	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*117 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*55.1 %*	*30-150*

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	0.0216	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 01:34	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0216	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 01:34	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0216	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 01:34	SR

Sample Information

Client Sample ID: SB004 (4-6) **York Sample ID:** 19E0591-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:35 am	05/13/2019

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
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0216	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:34	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0216	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:34	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0216	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:34	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0216	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:34	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0216	1	EPA 8082A Certifications:	05/20/2019 14:33	05/23/2019 01:34	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*64.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*59.0 %*	*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**	**6850**		mg/kg dry	6.51	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:07	KML
7440-36-0	Antimony	ND		mg/kg dry	3.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:07	KML
7440-38-2	**Arsenic**	**9.12**		mg/kg dry	1.95	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:07	KML
7440-39-3	**Barium**	**77.3**		mg/kg dry	3.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:07	KML
7440-41-7	**Beryllium**	**0.096**		mg/kg dry	0.065	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:07	KML
7440-43-9	**Cadmium**	**0.507**		mg/kg dry	0.391	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:07	KML
7440-70-2	**Calcium**	**22200**		mg/kg dry	6.51	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:07	KML
7440-47-3	**Chromium**	**12.8**		mg/kg dry	0.651	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:07	KML
7440-48-4	**Cobalt**	**6.79**		mg/kg dry	0.521	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:07	KML
7440-50-8	**Copper**	**165**		mg/kg dry	2.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:07	KML
7439-89-6	**Iron**	**17900**		mg/kg dry	32.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:07	KML
7439-92-1	**Lead**	**148**		mg/kg dry	0.651	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:07	KML

Sample Information

Client Sample ID: SB004 (4-6) **York Sample ID:** 19E0591-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:35 am	05/13/2019

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
7439-95-4	**Magnesium**	**3760**		mg/kg dry	6.51	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:07	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**242**		mg/kg dry	0.651	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:07	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**15.3**		mg/kg dry	1.30	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:07	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1350**		mg/kg dry	6.51	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:07	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	3.26	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:07	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.651	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:07	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**421**		mg/kg dry	65.1	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:07	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.26	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:07	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**21.3**		mg/kg dry	1.30	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:07	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**218**		mg/kg dry	3.26	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:07	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**0.127**		mg/kg dry	0.0391	1	EPA 7473	05/22/2019 09:04	05/22/2019 17:09	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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**	**76.8**		%	0.100	1	SM 2540G	05/16/2019 22:16	05/17/2019 15:13	JTV
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB004 (2-4) **York Sample ID:** 19E0591-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:40 am	05/13/2019

Sample Information

Client Sample ID: **SB004 (2-4)** **York Sample ID:** **19E0591-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:40 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0921	0.184	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/22/2019 23:56	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/22/2019 23:56	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/22/2019 23:56	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0921	0.184	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0921	0.184	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
91-57-6	**2-Methylnaphthalene**	**0.121**		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0921	0.184	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH

Sample Information

Client Sample ID: SB004 (2-4) **York Sample ID:** 19E0591-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:40 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0921	0.184	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0921	0.184	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0921	0.184	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0921	0.184	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
83-32-9	**Acenaphthene**	**0.315**		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
208-96-8	**Acenaphthylene**	**0.0935**		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 NELAC-NY10854,NJDEP,PADEP	KH
62-53-3	Aniline	ND		mg/kg dry	0.184	0.369	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 NELAC-NY10854,NJDEP,PADEP	KH
120-12-7	**Anthracene**	**1.06**		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 NELAC-NY10854,NJDEP,PADEP	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 NELAC-NY10854,NJDEP,PADEP	KH
92-87-5	Benzidine	ND		mg/kg dry	0.184	0.369	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 CTDOH,NELAC-NY10854,PADEP	KH
56-55-3	**Benzo(a)anthracene**	**2.56**		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
50-32-8	**Benzo(a)pyrene**	**2.53**		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
205-99-2	**Benzo(b)fluoranthene**	**2.03**		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
191-24-2	**Benzo(g,h,i)perylene**	**1.40**		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
207-08-9	**Benzo(k)fluoranthene**	**1.69**		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 NELAC-NY10854,NJDEP,PADEP	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37	05/22/2019 23:56 NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB004 (2-4) **York Sample ID:** 19E0591-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:40 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0921	0.184	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
86-74-8	**Carbazole**	**0.253**		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
218-01-9	**Chrysene**	**2.35**		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
53-70-3	**Dibenzo(a,h)anthracene**	**0.350**		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
132-64-9	**Dibenzofuran**	**0.218**		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
206-44-0	**Fluoranthene**	**5.35**		mg/kg dry	0.231	0.460	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 12:13	KH
86-73-7	**Fluorene**	**0.356**		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**1.79**		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
91-20-3	**Naphthalene**	**0.166**		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH

Sample Information

Client Sample ID: SB004 (2-4) **York Sample ID:** 19E0591-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:40 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
85-01-8	**Phenanthrene**	**3.74**		mg/kg dry	0.231	0.460	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 12:13	KH
108-95-2	Phenol	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH
129-00-0	**Pyrene**	**4.90**		mg/kg dry	0.231	0.460	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 12:13	KH
110-86-1	Pyridine	ND		mg/kg dry	0.184	0.369	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:56	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*65.4 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*61.8 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*64.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*56.8 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*53.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*64.0 %*	*24-116*

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:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:49	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:49	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:49	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:49	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:49	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications:	05/20/2019 14:33 NELAC-NY10854,NJDEP	05/23/2019 01:49	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:49	CM

Sample Information

Client Sample ID: SB004 (2-4) **York Sample ID:** 19E0591-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:40 am	05/13/2019

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
319-86-8	delta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:49	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:49	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:49	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	05/20/2019 14:33	05/23/2019 01:49	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:49	CM
72-20-8	Endrin	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:49	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:49	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:49	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:49	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	05/23/2019 01:49	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:49	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:49	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:49	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:49	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0361	5	EPA 8081B Certifications:	05/20/2019 14:33	05/23/2019 01:49	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*96.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*46.8 %*	*30-150*

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	05/20/2019 14:33	05/23/2019 01:47	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:47	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:47	SR

Sample Information

Client Sample ID: SB004 (2-4) **York Sample ID:** 19E0591-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:40 am	05/13/2019

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
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:47	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:47	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:47	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:47	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications:	05/20/2019 14:33	05/23/2019 01:47	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*61.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*53.5 %*	*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**	**15000**		mg/kg dry	5.54	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:14	KML
7440-36-0	Antimony	ND		mg/kg dry	2.77	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:14	KML
7440-38-2	**Arsenic**	**7.13**		mg/kg dry	1.66	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:14	KML
7440-39-3	**Barium**	**162**		mg/kg dry	2.77	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:14	KML
7440-41-7	**Beryllium**	**0.121**		mg/kg dry	0.055	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:14	KML
7440-43-9	**Cadmium**	**1.05**		mg/kg dry	0.332	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:14	KML
7440-70-2	**Calcium**	**22400**		mg/kg dry	5.54	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:14	KML
7440-47-3	**Chromium**	**31.3**		mg/kg dry	0.554	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:14	KML
7440-48-4	**Cobalt**	**13.0**		mg/kg dry	0.443	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:14	KML
7440-50-8	**Copper**	**315**		mg/kg dry	2.21	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:14	KML
7439-89-6	**Iron**	**31000**		mg/kg dry	27.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:14	KML
7439-92-1	**Lead**	**307**		mg/kg dry	0.554	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:14	KML

Sample Information

Client Sample ID: SB004 (2-4) **York Sample ID:** 19E0591-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:40 am	05/13/2019

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
7439-95-4	**Magnesium**	**9420**		mg/kg dry	5.54	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:14	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**436**		mg/kg dry	0.554	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:14	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**31.7**		mg/kg dry	1.11	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:14	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**3360**		mg/kg dry	5.54	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:14	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	2.77	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:14	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.554	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:14	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**432**		mg/kg dry	55.4	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:14	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	2.77	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:14	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**41.8**		mg/kg dry	1.11	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:14	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**462**		mg/kg dry	2.77	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:14	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**0.339**		mg/kg dry	0.0332	1	EPA 7473	05/22/2019 09:04	05/22/2019 17:18	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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**	**90.3**		%	0.100	1	SM 2540G	05/16/2019 22:16	05/17/2019 15:13	JTV
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB005 (2-4) **York Sample ID:** 19E0591-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:15 am	05/13/2019

Sample Information

Client Sample ID: **SB005 (2-4)** **York Sample ID:** **19E0591-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:15 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.502	1.00	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/23/2019 00:26	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/23/2019 00:26	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/23/2019 00:26	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.502	1.00	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.502	1.00	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
91-57-6	**2-Methylnaphthalene**	**0.281**	J	mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.502	1.00	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH

Sample Information

Client Sample ID: **SB005 (2-4)** **York Sample ID:** **19E0591-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:15 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.502	1.00	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.502	1.00	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.502	1.00	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.502	1.00	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
83-32-9	**Acenaphthene**	**0.855**		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
208-96-8	**Acenaphthylene**	**0.313**	J	mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
62-53-3	Aniline	ND		mg/kg dry	1.01	2.01	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
120-12-7	**Anthracene**	**2.07**		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
92-87-5	Benzidine	ND		mg/kg dry	1.01	2.01	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,PADEP	05/23/2019 00:26	KH
56-55-3	**Benzo(a)anthracene**	**6.02**		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
50-32-8	**Benzo(a)pyrene**	**4.92**		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
205-99-2	**Benzo(b)fluoranthene**	**4.57**		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
191-24-2	**Benzo(g,h,i)perylene**	**2.39**		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
207-08-9	**Benzo(k)fluoranthene**	**4.04**		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH

Sample Information

Client Sample ID: **SB005 (2-4)** **York Sample ID:** **19E0591-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:15 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	**Benzyl butyl phthalate**	**0.305**	J	mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-60-2	Caprolactam	ND		mg/kg dry	0.502	1.00	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	**Carbazole**	**1.33**		mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	**Chrysene**	**5.75**		mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	**Dibenzo(a,h)anthracene**	**0.782**		mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	**Dibenzofuran**	**0.742**		mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	**Fluoranthene**	**14.8**		mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	**Fluorene**	**0.819**		mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**3.33**		mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	**Naphthalene**	**0.449**	J	mg/kg dry	0.252	0.502	10	EPA 8270D	05/20/2019 14:37	05/23/2019 00:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: SB005 (2-4) **York Sample ID:** 19E0591-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:15 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
85-01-8	**Phenanthrene**	**12.1**		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
108-95-2	Phenol	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
129-00-0	**Pyrene**	**12.1**		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH
110-86-1	Pyridine	ND		mg/kg dry	1.01	2.01	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:26	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*75.6 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*72.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*77.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*59.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*58.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*72.0 %*	*24-116*

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	0.00200	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:04	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:04	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:04	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:04	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:04	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications:	05/20/2019 14:33 NELAC-NY10854,NJDEP	05/23/2019 02:04	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:04	CM

Sample Information

Client Sample ID: SB005 (2-4) **York Sample ID:** 19E0591-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:15 am	05/13/2019

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
319-86-8	delta-BHC	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:04	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:04	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:04	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854	05/23/2019 02:04	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:04	CM
72-20-8	Endrin	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:04	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:04	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:04	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:04	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications:	05/20/2019 14:33 NELAC-NY10854,NJDEP	05/23/2019 02:04	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:04	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:04	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:04	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.200	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:04	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0400	5	EPA 8081B Certifications:	05/20/2019 14:33	05/23/2019 02:04	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*96.4 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*45.1 %*	*30-150*

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	0.0202	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 02:01	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0202	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 02:01	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0202	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 02:01	SR

Sample Information

Client Sample ID: SB005 (2-4) **York Sample ID:** 19E0591-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:15 am	05/13/2019

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
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0202	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:01	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0202	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:01	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0202	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:01	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0202	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:01	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0202	1	EPA 8082A Certifications:	05/20/2019 14:33	05/23/2019 02:01	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*58.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*50.5 %*	*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**	**7540**		mg/kg dry	6.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:16	KML
7440-36-0	Antimony	ND		mg/kg dry	3.04	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:16	KML
7440-38-2	**Arsenic**	**3.87**		mg/kg dry	1.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:16	KML
7440-39-3	**Barium**	**131**		mg/kg dry	3.04	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:16	KML
7440-41-7	**Beryllium**	**0.830**		mg/kg dry	0.061	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:16	KML
7440-43-9	**Cadmium**	**1.19**		mg/kg dry	0.365	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:16	KML
7440-70-2	**Calcium**	**16500**		mg/kg dry	6.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:16	KML
7440-47-3	**Chromium**	**26.4**		mg/kg dry	0.608	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:16	KML
7440-48-4	**Cobalt**	**12.6**		mg/kg dry	0.486	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:16	KML
7440-50-8	**Copper**	**241**		mg/kg dry	2.43	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:16	KML
7439-89-6	**Iron**	**21200**		mg/kg dry	30.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:16	KML
7439-92-1	**Lead**	**432**		mg/kg dry	0.608	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:16	KML

Sample Information

Client Sample ID: SB005 (2-4) **York Sample ID:** 19E0591-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:15 am	05/13/2019

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
7439-95-4	**Magnesium**	**4720**		mg/kg dry	6.08	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:16	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**338**		mg/kg dry	0.608	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:16	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**105**		mg/kg dry	1.22	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:16	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**2180**		mg/kg dry	6.08	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:16	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	3.04	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:16	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.608	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:16	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**485**		mg/kg dry	60.8	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:16	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.04	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:16	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**26.7**		mg/kg dry	1.22	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:16	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**781**		mg/kg dry	3.04	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:16	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**0.338**		mg/kg dry	0.0365	1	EPA 7473	05/22/2019 09:04	05/22/2019 17:27	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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**	**82.2**		%	0.100	1	SM 2540G	05/16/2019 22:16	05/17/2019 15:13	JTV
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB005 (0-2) **York Sample ID:** 19E0591-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:23 am	05/13/2019

Sample Information

Client Sample ID: **SB005 (0-2)** **York Sample ID:** **19E0591-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:23 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.520	1.04	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/23/2019 00:55	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/23/2019 00:55	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/23/2019 00:55	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.520	1.04	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.520	1.04	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.520	1.04	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH

Sample Information

Client Sample ID: SB005 (0-2) **York Sample ID:** 19E0591-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:23 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.520	1.04	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.520	1.04	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.520	1.04	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.520	1.04	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
62-53-3	Aniline	ND		mg/kg dry	1.04	2.08	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
120-12-7	Anthracene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
92-87-5	Benzidine	ND		mg/kg dry	1.04	2.08	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,PADEP	05/23/2019 00:55	KH
56-55-3	**Benzo(a)anthracene**	**0.341**	J	mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH

Sample Information

Client Sample ID: SB005 (0-2) **York Sample ID:** 19E0591-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:23 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.520	1.04	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 NELAC-NY10854,NJDEP,PADEP	KH
86-74-8	Carbazole	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
218-01-9	**Chrysene**	**0.295**	J	mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
206-44-0	**Fluoranthene**	**0.753**		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
86-73-7	Fluorene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 NELAC-NY10854,NJDEP,PADEP	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
78-59-1	Isophorone	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 00:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB005 (0-2) **York Sample ID:** 19E0591-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:23 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
85-01-8	**Phenanthrene**	**0.441**	J	mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
108-95-2	Phenol	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
129-00-0	**Pyrene**	**0.645**		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH
110-86-1	Pyridine	ND		mg/kg dry	1.04	2.08	10	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:55	KH

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*63.6 %*		*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*67.6 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*64.8 %*		*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*58.8 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*12.0 %*	S-01	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*65.6 %*		*24-116*

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	0.00207	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:19	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:19	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:19	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:19	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:19	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications:	05/20/2019 14:33 NELAC-NY10854,NJDEP	05/23/2019 02:19	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:19	CM

Sample Information

Client Sample ID: SB005 (0-2) **York Sample ID:** 19E0591-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:23 am	05/13/2019

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
319-86-8	delta-BHC	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:19	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:19	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:19	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854	05/23/2019 02:19	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:19	CM
72-20-8	Endrin	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:19	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:19	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:19	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:19	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications:	05/20/2019 14:33 NELAC-NY10854,NJDEP	05/23/2019 02:19	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:19	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:19	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:19	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.207	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:19	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0413	5	EPA 8081B Certifications:	05/20/2019 14:33	05/23/2019 02:19	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*119 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*69.5 %*	*30-150*

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	0.0209	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 02:14	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 02:14	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 02:14	SR

Sample Information

Client Sample ID: SB005 (0-2) **York Sample ID:** 19E0591-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:23 am	05/13/2019

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
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:14	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:14	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:14	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:14	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications:	05/20/2019 14:33	05/23/2019 02:14	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*63.5 %*	*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**	**6750**		mg/kg dry	6.28	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:19	KML
7440-36-0	Antimony	ND		mg/kg dry	3.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:19	KML
7440-38-2	**Arsenic**	**7.54**		mg/kg dry	1.88	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:19	KML
7440-39-3	**Barium**	**200**		mg/kg dry	3.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:19	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.063	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:19	KML
7440-43-9	**Cadmium**	**0.452**		mg/kg dry	0.377	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:19	KML
7440-70-2	**Calcium**	**72400**		mg/kg dry	6.28	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:19	KML
7440-47-3	**Chromium**	**18.3**		mg/kg dry	0.628	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:19	KML
7440-48-4	**Cobalt**	**5.77**		mg/kg dry	0.503	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:19	KML
7440-50-8	**Copper**	**35.6**		mg/kg dry	2.51	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:19	KML
7439-89-6	**Iron**	**10700**		mg/kg dry	31.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:19	KML
7439-92-1	**Lead**	**105**		mg/kg dry	0.628	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:19	KML
7439-95-4	**Magnesium**	**17400**		mg/kg dry	6.28	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:19	KML

Sample Information

Client Sample ID: SB005 (0-2) **York Sample ID:** 19E0591-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:23 am	05/13/2019

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
7439-96-5	**Manganese**	**197**		mg/kg dry	0.628	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**13.7**		mg/kg dry	1.26	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1520**		mg/kg dry	6.28	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	**Selenium**	**9.92**		mg/kg dry	3.14	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.628	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**369**		mg/kg dry	62.8	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.14	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**21.2**		mg/kg dry	1.26	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**210**		mg/kg dry	3.14	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**0.145**		mg/kg dry	0.0377	1	EPA 7473	05/22/2019 09:04	05/22/2019 17:36	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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**	**79.6**		%	0.100	1	SM 2540G	05/16/2019 22:16	05/17/2019 15:13	JTV
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB005 (8-10) **York Sample ID:** 19E0591-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:20 am	05/13/2019

Sample Information

Client Sample ID: SB005 (8-10) **York Sample ID:** 19E0591-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:20 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.104	0.207	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/23/2019 01:25	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/23/2019 01:25	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/23/2019 01:25	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.104	0.207	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.104	0.207	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.104	0.207	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH

Sample Information

Client Sample ID: SB005 (8-10) **York Sample ID:** 19E0591-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:20 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.104	0.207	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.104	0.207	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.104	0.207	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.104	0.207	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 NELAC-NY10854,NJDEP,PADEP	KH
62-53-3	Aniline	ND		mg/kg dry	0.208	0.415	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 NELAC-NY10854,NJDEP,PADEP	KH
120-12-7	**Anthracene**	**0.0647**	J	mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 NELAC-NY10854,NJDEP,PADEP	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 NELAC-NY10854,NJDEP,PADEP	KH
92-87-5	Benzidine	ND		mg/kg dry	0.208	0.415	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 CTDOH,NELAC-NY10854,PADEP	KH
56-55-3	**Benzo(a)anthracene**	**0.245**		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
50-32-8	**Benzo(a)pyrene**	**0.323**		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
205-99-2	**Benzo(b)fluoranthene**	**0.240**		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.235**		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
207-08-9	**Benzo(k)fluoranthene**	**0.206**		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 NELAC-NY10854,NJDEP,PADEP	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:25 NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB005 (8-10) **York Sample ID:** 19E0591-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:20 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.104	0.207	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
218-01-9	**Chrysene**	**0.258**		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
53-70-3	**Dibenzo(a,h)anthracene**	**0.0597**	J	mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
206-44-0	**Fluoranthene**	**0.548**		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
86-73-7	Fluorene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.265**		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH

Sample Information

Client Sample ID: SB005 (8-10) **York Sample ID:** 19E0591-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:20 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
85-01-8	**Phenanthrene**	**0.356**		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
108-95-2	Phenol	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
129-00-0	**Pyrene**	**0.494**		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH
110-86-1	Pyridine	ND		mg/kg dry	0.208	0.415	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:25	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*74.4 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*68.1 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*70.9 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*57.1 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*51.9 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*67.0 %*	*24-116*

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	0.00205	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:43	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:43	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:43	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:43	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:43	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 14:33 NELAC-NY10854,NJDEP	05/22/2019 05:43	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:43	CM

Sample Information

Client Sample ID: SB005 (8-10) **York Sample ID:** 19E0591-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:20 am	05/13/2019

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
319-86-8	delta-BHC	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:43	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:43	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:43	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	05/20/2019 14:33	05/22/2019 05:43	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:43	CM
72-20-8	Endrin	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:43	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:43	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:43	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:43	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	05/22/2019 05:43	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:43	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:43	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:43	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:43	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0410	5	EPA 8081B Certifications:	05/20/2019 14:33	05/22/2019 05:43	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*130 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*93.2 %*	*30-150*

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	0.0207	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 11:17	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0207	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 11:17	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0207	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 11:17	SR

Sample Information

Client Sample ID: SB005 (8-10) **York Sample ID:** 19E0591-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:20 am	05/13/2019

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
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0207	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 11:17	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0207	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 11:17	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0207	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 11:17	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0207	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 11:17	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0207	1	EPA 8082A Certifications:	05/20/2019 14:33	05/23/2019 11:17	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*69.0 %*	*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**		mg/kg dry	6.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:21	KML
7440-36-0	Antimony	ND		mg/kg dry	3.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:21	KML
7440-38-2	**Arsenic**	**2.09**		mg/kg dry	1.88	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:21	KML
7440-39-3	**Barium**	**63.5**		mg/kg dry	3.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:21	KML
7440-41-7	**Beryllium**	**0.437**		mg/kg dry	0.063	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:21	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.376	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:21	KML
7440-70-2	**Calcium**	**991**		mg/kg dry	6.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:21	KML
7440-47-3	**Chromium**	**13.3**		mg/kg dry	0.626	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:21	KML
7440-48-4	**Cobalt**	**6.21**		mg/kg dry	0.501	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:21	KML
7440-50-8	**Copper**	**17.6**		mg/kg dry	2.50	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:21	KML
7439-89-6	**Iron**	**15300**		mg/kg dry	31.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:21	KML
7439-92-1	**Lead**	**90.8**		mg/kg dry	0.626	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:21	KML
7439-95-4	**Magnesium**	**2590**		mg/kg dry	6.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:21	KML

Sample Information

Client Sample ID: SB005 (8-10) **York Sample ID:** 19E0591-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:20 am	05/13/2019

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
7439-96-5	**Manganese**	**247**		mg/kg dry	0.626	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**14.0**		mg/kg dry	1.25	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**876**		mg/kg dry	6.26	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	3.13	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.626	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**697**		mg/kg dry	62.6	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.13	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**16.2**		mg/kg dry	1.25	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**47.5**		mg/kg dry	3.13	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**0.662**		mg/kg dry	0.0376	1	EPA 7473	05/22/2019 09:04	05/22/2019 17:45	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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**	**79.9**		%	0.100	1	SM 2540G	05/16/2019 22:16	05/17/2019 15:13	JTV
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB006 (0-2) **York Sample ID:** 19E0591-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:00 am	05/13/2019

Sample Information

Client Sample ID: SB006 (0-2) **York Sample ID:** 19E0591-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/23/2019 01:55	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/23/2019 01:55	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/23/2019 01:55	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH

Sample Information

Client Sample ID: SB006 (0-2) **York Sample ID:** 19E0591-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
208-96-8	**Acenaphthylene**	**0.0744**	J	mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 NELAC-NY10854,NJDEP,PADEP	KH
62-53-3	Aniline	ND		mg/kg dry	0.205	0.409	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 NELAC-NY10854,NJDEP,PADEP	KH
120-12-7	**Anthracene**	**0.0727**	J	mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 NELAC-NY10854,NJDEP,PADEP	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 NELAC-NY10854,NJDEP,PADEP	KH
92-87-5	Benzidine	ND		mg/kg dry	0.205	0.409	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 CTDOH,NELAC-NY10854,PADEP	KH
56-55-3	**Benzo(a)anthracene**	**0.311**		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
50-32-8	**Benzo(a)pyrene**	**0.364**		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
205-99-2	**Benzo(b)fluoranthene**	**0.311**		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.230**		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
207-08-9	**Benzo(k)fluoranthene**	**0.242**		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 NELAC-NY10854,NJDEP,PADEP	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 01:55 NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB006 (0-2)

York Sample ID: 19E0591-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	**Benzyl butyl phthalate**	**0.102**		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.163**		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
218-01-9	**Chrysene**	**0.294**		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
53-70-3	**Dibenzo(a,h)anthracene**	**0.0597**	J	mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
206-44-0	**Fluoranthene**	**0.506**		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
86-73-7	Fluorene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.284**		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH

Sample Information

Client Sample ID: SB006 (0-2) **York Sample ID:** 19E0591-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
85-01-8	**Phenanthrene**	**0.203**		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
108-95-2	Phenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
129-00-0	**Pyrene**	**0.485**		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
110-86-1	Pyridine	ND		mg/kg dry	0.205	0.409	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*67.1 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*65.7 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*69.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*60.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*55.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*74.7 %*	*24-116*

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	0.00202	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:34	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00202	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:34	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00202	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:34	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00202	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:34	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00202	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:34	CM
5103-71-9	**alpha-Chlordane**	**0.00983**		mg/kg dry	0.00202	5	EPA 8081B Certifications:	05/20/2019 14:33 NELAC-NY10854,NJDEP	05/23/2019 02:34	CM

Sample Information

Client Sample ID: SB006 (0-2) **York Sample ID:** 19E0591-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:00 am	05/13/2019

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
319-85-7	beta-BHC	ND		mg/kg dry	0.00202	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:34	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00202	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:34	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00202	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:34	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00202	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:34	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00202	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	05/20/2019 14:33	05/23/2019 02:34	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00202	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:34	CM
72-20-8	Endrin	ND		mg/kg dry	0.00202	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:34	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00202	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:34	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00202	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:34	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00202	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:34	CM
5566-34-7	**gamma-Chlordane**	**0.00771**		mg/kg dry	0.00202	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	05/23/2019 02:34	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00202	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:34	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00202	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:34	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00202	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:34	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.202	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:34	CM
57-74-9	*** Chlordane, total**	**0.0599**		mg/kg dry	0.0404	5	EPA 8081B Certifications:	05/20/2019 14:33	05/23/2019 02:34	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*136 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*64.1 %*	*30-150*

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	0.0204	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:28	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0204	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:28	SR

Sample Information

Client Sample ID: SB006 (0-2) **York Sample ID:** 19E0591-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:00 am	05/13/2019

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
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0204	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:28	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0204	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:28	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0204	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:28	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0204	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:28	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0204	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:28	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0204	1	EPA 8082A Certifications:	05/20/2019 14:33	05/23/2019 02:28	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*75.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*72.5 %*	*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**	**5890**		mg/kg dry	6.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:23	KML
7440-36-0	Antimony	ND		mg/kg dry	3.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:23	KML
7440-38-2	**Arsenic**	**2.26**		mg/kg dry	1.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:23	KML
7440-39-3	**Barium**	**120**		mg/kg dry	3.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:23	KML
7440-41-7	**Beryllium**	**0.102**		mg/kg dry	0.061	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:23	KML
7440-43-9	**Cadmium**	**0.707**		mg/kg dry	0.369	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:23	KML
7440-70-2	**Calcium**	**39100**		mg/kg dry	6.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:23	KML
7440-47-3	**Chromium**	**17.7**		mg/kg dry	0.615	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:23	KML
7440-48-4	**Cobalt**	**5.84**		mg/kg dry	0.492	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:23	KML
7440-50-8	**Copper**	**105**		mg/kg dry	2.46	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:23	KML
7439-89-6	**Iron**	**12900**		mg/kg dry	30.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:23	KML
7439-92-1	**Lead**	**474**		mg/kg dry	0.615	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:23	KML

Sample Information

Client Sample ID: SB006 (0-2) **York Sample ID:** 19E0591-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:00 am	05/13/2019

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
7439-95-4	**Magnesium**	**6770**		mg/kg dry	6.15	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**175**		mg/kg dry	0.615	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**14.7**		mg/kg dry	1.23	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1070**		mg/kg dry	6.15	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	3.07	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.615	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**646**		mg/kg dry	61.5	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.07	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**23.2**		mg/kg dry	1.23	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**262**		mg/kg dry	3.07	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**3.49**		mg/kg dry	0.0369	1	EPA 7473	05/22/2019 09:04	05/22/2019 17:58	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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**	**81.3**		%	0.100	1	SM 2540G	05/16/2019 22:16	05/17/2019 15:13	JTV
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB006 (4-6) **York Sample ID:** 19E0591-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:05 am	05/13/2019

Sample Information

Client Sample ID: SB006 (4-6) **York Sample ID:** 19E0591-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:05 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

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	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0851	0.170	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/23/2019 02:25	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/23/2019 02:25	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/23/2019 02:25	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0851	0.170	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0851	0.170	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0851	0.170	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH

Sample Information

Client Sample ID: SB006 (4-6) **York Sample ID:** 19E0591-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:05 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0851	0.170	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0851	0.170	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0851	0.170	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0851	0.170	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
62-53-3	Aniline	ND		mg/kg dry	0.170	0.341	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
92-87-5	Benzidine	ND		mg/kg dry	0.170	0.341	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,PADEP	05/23/2019 02:25	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH

Sample Information

Client Sample ID: SB006 (4-6) **York Sample ID:** 19E0591-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:05 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
105-60-2	Caprolactam	ND		mg/kg dry	0.0851	0.170	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH NELAC-NY10854,NJDEP,PADEP
86-74-8	Carbazole	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
218-01-9	Chrysene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
206-44-0	Fluoranthene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
86-73-7	Fluorene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH NELAC-NY10854,NJDEP,PADEP
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
78-59-1	Isophorone	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
91-20-3	Naphthalene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:25	KH CTDOH,NELAC-NY10854,NJDEP,PADEP

Sample Information

Client Sample ID: SB006 (4-6) **York Sample ID:** 19E0591-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:05 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
108-95-2	Phenol	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH
110-86-1	Pyridine	ND		mg/kg dry	0.170	0.341	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:25	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*48.4 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*44.8 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*46.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*37.7 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*41.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*48.4 %*	*24-116*

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	0.00168	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:58	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:58	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:58	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:58	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:58	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications:	05/20/2019 14:33 NELAC-NY10854,NJDEP	05/22/2019 05:58	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:58	CM

Sample Information

Client Sample ID: SB006 (4-6) **York Sample ID:** 19E0591-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:05 am	05/13/2019

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
319-86-8	delta-BHC	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:58	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:58	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:58	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854	05/22/2019 05:58	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:58	CM
72-20-8	Endrin	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:58	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:58	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:58	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:58	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications:	05/20/2019 14:33 NELAC-NY10854,NJDEP	05/22/2019 05:58	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:58	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:58	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:58	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.168	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 05:58	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0337	5	EPA 8081B Certifications:	05/20/2019 14:33	05/22/2019 05:58	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*113 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*90.1 %*	*30-150*

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	0.0170	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 11:30	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 11:30	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 11:30	SR

Sample Information

Client Sample ID: SB006 (4-6) **York Sample ID:** 19E0591-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:05 am	05/13/2019

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
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 11:30	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 11:30	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 11:30	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 11:30	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications:	05/20/2019 14:33	05/23/2019 11:30	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*50.0 %*	*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**	**1040**		mg/kg dry	5.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:25	KML
7440-36-0	Antimony	ND		mg/kg dry	2.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:25	KML
7440-38-2	Arsenic	ND		mg/kg dry	1.54	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:25	KML
7440-39-3	**Barium**	**7.05**		mg/kg dry	2.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:25	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.051	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:25	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.307	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:25	KML
7440-70-2	**Calcium**	**982**		mg/kg dry	5.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:25	KML
7440-47-3	**Chromium**	**2.90**		mg/kg dry	0.512	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:25	KML
7440-48-4	**Cobalt**	**1.31**		mg/kg dry	0.410	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:25	KML
7440-50-8	**Copper**	**5.54**		mg/kg dry	2.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:25	KML
7439-89-6	**Iron**	**3260**		mg/kg dry	25.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:25	KML
7439-92-1	**Lead**	**7.67**		mg/kg dry	0.512	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:25	KML
7439-95-4	**Magnesium**	**422**		mg/kg dry	5.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:25	KML

Sample Information

Client Sample ID: SB006 (4-6) **York Sample ID:** 19E0591-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:05 am	05/13/2019

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
7439-96-5	**Manganese**	**39.6**		mg/kg dry	0.512	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:25	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**3.27**		mg/kg dry	1.02	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:25	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**255**		mg/kg dry	5.12	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:25	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	2.56	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:25	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.512	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:25	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**63.2**		mg/kg dry	51.2	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:25	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	2.56	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:25	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**4.09**		mg/kg dry	1.02	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:25	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**26.4**		mg/kg dry	2.56	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:25	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**0.0375**		mg/kg dry	0.0307	1	EPA 7473	05/22/2019 09:04	05/22/2019 18:38	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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	05/16/2019 22:16	05/17/2019 15:13	JTV
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB006 (6-8) **York Sample ID:** 19E0591-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:10 am	05/13/2019

Sample Information

Client Sample ID: SB006 (6-8) **York Sample ID:** 19E0591-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:10 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	0.0488	0.0973	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0973	0.194	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0973	0.194	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0973	0.194	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0973	0.194	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH

Sample Information

Client Sample ID: SB006 (6-8) **York Sample ID:** 19E0591-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:10 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0973	0.194	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0973	0.194	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0973	0.194	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0973	0.194	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 NELAC-NY10854,NJDEP,PADEP	KH
62-53-3	Aniline	ND		mg/kg dry	0.195	0.390	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 NELAC-NY10854,NJDEP,PADEP	KH
120-12-7	**Anthracene**	**0.0848**	J	mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 NELAC-NY10854,NJDEP,PADEP	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 NELAC-NY10854,NJDEP,PADEP	KH
92-87-5	Benzidine	ND		mg/kg dry	0.195	0.390	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,PADEP	KH
56-55-3	**Benzo(a)anthracene**	**0.312**		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
50-32-8	**Benzo(a)pyrene**	**0.318**		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
205-99-2	**Benzo(b)fluoranthene**	**0.247**		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.170**		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
207-08-9	**Benzo(k)fluoranthene**	**0.203**		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 NELAC-NY10854,NJDEP,PADEP	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB006 (6-8)

York Sample ID: 19E0591-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:10 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0973	0.194	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 NELAC-NY10854,NJDEP,PADEP	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
218-01-9	**Chrysene**	**0.300**		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
206-44-0	**Fluoranthene**	**0.670**		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
86-73-7	Fluorene	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 NELAC-NY10854,NJDEP,PADEP	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.217**		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 02:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB006 (6-8) **York Sample ID:** 19E0591-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:10 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:55	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:55	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:55	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:55	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:55	KH
85-01-8	**Phenanthrene**	**0.379**		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:55	KH
108-95-2	Phenol	ND		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:55	KH
129-00-0	**Pyrene**	**0.651**		mg/kg dry	0.0488	0.0973	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:55	KH
110-86-1	Pyridine	ND		mg/kg dry	0.195	0.390	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:55	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*76.0 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*70.3 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*72.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*61.3 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*59.8 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*71.0 %*	*24-116*

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	0.00193	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:19	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:19	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:19	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:19	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:19	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications:	05/20/2019 14:33 NELAC-NY10854,NJDEP	05/22/2019 20:19	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:19	CM

Sample Information

Client Sample ID: SB006 (6-8) **York Sample ID:** 19E0591-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:10 am	05/13/2019

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
319-86-8	delta-BHC	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:19	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:19	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:19	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854	05/22/2019 20:19	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:19	CM
72-20-8	Endrin	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:19	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:19	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:19	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:19	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications:	05/20/2019 14:33 NELAC-NY10854,NJDEP	05/22/2019 20:19	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:19	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:19	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:19	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.193	5	EPA 8081B Certifications:	05/20/2019 14:33 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 20:19	CM
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0386	5	EPA 8081B Certifications:	05/20/2019 14:33	05/22/2019 20:19	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*122 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*85.3 %*	*30-150*

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	0.0195	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 11:03	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 11:03	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications:	05/20/2019 14:33 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 11:03	SR

Sample Information

Client Sample ID: SB006 (6-8) **York Sample ID:** 19E0591-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:10 am	05/13/2019

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
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 11:03	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 11:03	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 11:03	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 11:03	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications:	05/20/2019 14:33	05/23/2019 11:03	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*74.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*77.5 %*	*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**	**6970**		mg/kg dry	5.87	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:28	KML
7440-36-0	Antimony	ND		mg/kg dry	2.94	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:28	KML
7440-38-2	**Arsenic**	**2.26**		mg/kg dry	1.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:28	KML
7440-39-3	**Barium**	**45.7**		mg/kg dry	2.94	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:28	KML
7440-41-7	**Beryllium**	**0.144**		mg/kg dry	0.059	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:28	KML
7440-43-9	**Cadmium**	**0.908**		mg/kg dry	0.352	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:28	KML
7440-70-2	**Calcium**	**4170**		mg/kg dry	5.87	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:28	KML
7440-47-3	**Chromium**	**13.3**		mg/kg dry	0.587	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:28	KML
7440-48-4	**Cobalt**	**7.00**		mg/kg dry	0.470	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:28	KML
7440-50-8	**Copper**	**275**		mg/kg dry	2.35	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:28	KML
7439-89-6	**Iron**	**15800**		mg/kg dry	29.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:28	KML
7439-92-1	**Lead**	**160**		mg/kg dry	0.587	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:28	KML

Sample Information

Client Sample ID: SB006 (6-8) **York Sample ID:** 19E0591-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 9:10 am	05/13/2019

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
7439-95-4	**Magnesium**	**4410**		mg/kg dry	5.87	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:28	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**123**		mg/kg dry	0.587	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:28	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**16.7**		mg/kg dry	1.17	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:28	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1200**		mg/kg dry	5.87	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:28	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	2.94	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:28	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.587	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:28	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**192**		mg/kg dry	58.7	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:28	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	2.94	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:28	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**19.0**		mg/kg dry	1.17	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:28	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**709**		mg/kg dry	2.94	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:28	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**0.278**		mg/kg dry	0.0352	1	EPA 7473	05/22/2019 09:04	05/22/2019 18:47	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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**	**85.1**		%	0.100	1	SM 2540G	05/16/2019 22:16	05/17/2019 15:13	JTV
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB007 (8-10) **York Sample ID:** 19E0591-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:50 pm	05/13/2019

Sample Information

Client Sample ID: SB007 (8-10) **York Sample ID:** 19E0591-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:50 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.112	0.224	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/23/2019 03:25	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/23/2019 03:25	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,PADEP	05/23/2019 03:25	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.112	0.224	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.112	0.224	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.112	0.224	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH

Sample Information

Client Sample ID: SB007 (8-10) **York Sample ID:** 19E0591-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:50 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.112	0.224	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.112	0.224	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.112	0.224	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.112	0.224	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 NELAC-NY10854,NJDEP,PADEP	KH
62-53-3	Aniline	ND		mg/kg dry	0.224	0.449	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 NELAC-NY10854,NJDEP,PADEP	KH
120-12-7	**Anthracene**	**0.0797**	J	mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 NELAC-NY10854,NJDEP,PADEP	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 NELAC-NY10854,NJDEP,PADEP	KH
92-87-5	Benzidine	ND		mg/kg dry	0.224	0.449	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,PADEP	KH
56-55-3	**Benzo(a)anthracene**	**0.259**		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
50-32-8	**Benzo(a)pyrene**	**0.232**		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
205-99-2	**Benzo(b)fluoranthene**	**0.158**		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.114**		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
207-08-9	**Benzo(k)fluoranthene**	**0.154**		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 NELAC-NY10854,NJDEP,PADEP	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB007 (8-10) **York Sample ID:** 19E0591-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:50 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.112	0.224	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 NELAC-NY10854,NJDEP,PADEP	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
218-01-9	**Chrysene**	**0.228**		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
206-44-0	**Fluoranthene**	**0.501**		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
86-73-7	Fluorene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 NELAC-NY10854,NJDEP,PADEP	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.142**		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:25 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB007 (8-10) **York Sample ID:** 19E0591-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:50 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
85-01-8	**Phenanthrene**	**0.365**		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
108-95-2	Phenol	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
129-00-0	**Pyrene**	**0.561**		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH
110-86-1	Pyridine	ND		mg/kg dry	0.224	0.449	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:25	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*84.1 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*78.8 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*82.5 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*64.5 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*63.9 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*67.2 %*	*24-116*

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**	**6780**		mg/kg dry	6.79	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:30	KML
7440-36-0	Antimony	ND		mg/kg dry	3.39	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:30	KML
7440-38-2	**Arsenic**	**8.26**		mg/kg dry	2.04	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:30	KML
7440-39-3	**Barium**	**376**		mg/kg dry	3.39	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:30	KML
7440-41-7	**Beryllium**	**0.712**		mg/kg dry	0.068	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:30	KML
7440-43-9	**Cadmium**	**0.602**		mg/kg dry	0.407	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:30	KML

Sample Information

Client Sample ID: SB007 (8-10) **York Sample ID:** 19E0591-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:50 pm	05/13/2019

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
7440-70-2	**Calcium**	**9660**		mg/kg dry	6.79	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:30	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**11.7**		mg/kg dry	0.679	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:30	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	**Cobalt**	**12.0**		mg/kg dry	0.543	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:30	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**170**		mg/kg dry	2.71	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:30	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**10300**		mg/kg dry	33.9	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:30	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**431**		mg/kg dry	0.679	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:30	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**913**		mg/kg dry	6.79	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:30	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**329**		mg/kg dry	0.679	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:30	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**22.1**		mg/kg dry	1.36	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:30	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1060**		mg/kg dry	6.79	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:30	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	3.39	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:30	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.679	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:30	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**1950**		mg/kg dry	67.9	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:30	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.39	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:30	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**26.3**		mg/kg dry	1.36	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:30	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**399**		mg/kg dry	3.39	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:30	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**1.40**		mg/kg dry	0.0407	1	EPA 7473	05/22/2019 09:04	05/22/2019 18:56	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **SB007 (8-10)** **York Sample ID:** **19E0591-19**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:50 pm	05/13/2019

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**	**73.7**		%	0.100	1	SM 2540G	05/16/2019 22:16	05/17/2019 15:13	JTV
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB007 (12-14)** **York Sample ID:** **19E0591-20**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:00 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	0.0720	0.144	2	EPA 8270D	05/20/2019 14:37	05/23/2019 03:55	KH
								Certifications: NELAC-NY10854,NJDEP,PADEP			
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.144	0.287	2	EPA 8270D	05/20/2019 14:37	05/23/2019 03:55	KH
								Certifications: NELAC-NY10854,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D	05/20/2019 14:37	05/23/2019 03:55	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D	05/20/2019 14:37	05/23/2019 03:55	KH
								Certifications: NELAC-NY10854,PADEP			
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D	05/20/2019 14:37	05/23/2019 03:55	KH
								Certifications: NELAC-NY10854,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D	05/20/2019 14:37	05/23/2019 03:55	KH
								Certifications: NELAC-NY10854,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D	05/20/2019 14:37	05/23/2019 03:55	KH
								Certifications: NELAC-NY10854,PADEP			
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.144	0.287	2	EPA 8270D	05/20/2019 14:37	05/23/2019 03:55	KH
								Certifications: NELAC-NY10854,NJDEP,PADEP			
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D	05/20/2019 14:37	05/23/2019 03:55	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D	05/20/2019 14:37	05/23/2019 03:55	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D	05/20/2019 14:37	05/23/2019 03:55	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D	05/20/2019 14:37	05/23/2019 03:55	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.144	0.287	2	EPA 8270D	05/20/2019 14:37	05/23/2019 03:55	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D	05/20/2019 14:37	05/23/2019 03:55	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D	05/20/2019 14:37	05/23/2019 03:55	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB007 (12-14) **York Sample ID:** 19E0591-20

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:00 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.144	0.287	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 NELAC-NY10854,NJDEP,PADEP	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.144	0.287	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.144	0.287	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.144	0.287	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.144	0.287	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
208-96-8	**Acenaphthylene**	**0.0849**	J	mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 NELAC-NY10854,NJDEP,PADEP	KH
62-53-3	Aniline	ND		mg/kg dry	0.287	0.575	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 NELAC-NY10854,NJDEP,PADEP	KH
120-12-7	**Anthracene**	**0.120**	J	mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 NELAC-NY10854,NJDEP,PADEP	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37	05/23/2019 03:55 NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB007 (12-14) **York Sample ID:** 19E0591-20

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:00 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-87-5	Benzidine	ND		mg/kg dry	0.287	0.575	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,PADEP	05/23/2019 03:55	KH
56-55-3	**Benzo(a)anthracene**	**0.327**		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH
50-32-8	**Benzo(a)pyrene**	**0.491**		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH
205-99-2	**Benzo(b)fluoranthene**	**0.248**		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.277**		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH
207-08-9	**Benzo(k)fluoranthene**	**0.263**		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.144	0.287	2	EPA 8270D Certifications:	05/20/2019 14:37 NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH
218-01-9	**Chrysene**	**0.319**		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH
206-44-0	**Fluoranthene**	**0.555**		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications:	05/20/2019 14:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:55	KH

Sample Information

Client Sample ID: SB007 (12-14) **York Sample ID:** 19E0591-20

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:00 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	0.0720	0.144	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.270**		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
85-01-8	**Phenanthrene**	**0.171**		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
108-95-2	Phenol	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
129-00-0	**Pyrene**	**0.731**		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
110-86-1	Pyridine	ND		mg/kg dry	0.287	0.575	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*81.9 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*73.8 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*75.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*54.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*58.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*62.9 %*	*24-116*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB007 (12-14)** **York Sample ID:** **19E0591-20**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:00 pm	05/13/2019

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**	**21400**		mg/kg dry	8.64	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-36-0	Antimony	ND		mg/kg dry	4.32	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	**Arsenic**	**22.1**		mg/kg dry	2.59	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**133**		mg/kg dry	4.32	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	**Beryllium**	**0.704**		mg/kg dry	0.086	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**0.827**		mg/kg dry	0.518	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**3400**		mg/kg dry	8.64	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**59.6**		mg/kg dry	0.864	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	**Cobalt**	**16.1**		mg/kg dry	0.691	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**158**		mg/kg dry	3.45	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**39800**		mg/kg dry	43.2	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**365**		mg/kg dry	0.864	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**8990**		mg/kg dry	8.64	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**463**		mg/kg dry	0.864	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**39.5**		mg/kg dry	1.73	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**4460**		mg/kg dry	8.64	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	4.32	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.864	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**2780**		mg/kg dry	86.4	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	4.32	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**51.0**		mg/kg dry	1.73	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**280**		mg/kg dry	4.32	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:32	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB007 (12-14) **York Sample ID:** 19E0591-20

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:00 pm	05/13/2019

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**	**5.38**		mg/kg dry	0.0518	1	EPA 7473	05/22/2019 09:04	05/22/2019 19:21	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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**	**57.9**		%	0.100	1	SM 2540G	05/16/2019 22:16	05/17/2019 15:13	JTV
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB007 (0-2) **York Sample ID:** 19E0591-21

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:40 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

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	0.0490	0.0977	2	EPA 8270D	05/21/2019 08:26	05/22/2019 23:58	KH
								Certifications: NELAC-NY10854,NJDEP,PADEP			
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0977	0.195	2	EPA 8270D	05/21/2019 08:26	05/22/2019 23:58	KH
								Certifications: NELAC-NY10854,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D	05/21/2019 08:26	05/22/2019 23:58	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D	05/21/2019 08:26	05/22/2019 23:58	KH
								Certifications: NELAC-NY10854,PADEP			
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D	05/21/2019 08:26	05/22/2019 23:58	KH
								Certifications: NELAC-NY10854,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D	05/21/2019 08:26	05/22/2019 23:58	KH
								Certifications: NELAC-NY10854,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D	05/21/2019 08:26	05/22/2019 23:58	KH
								Certifications: NELAC-NY10854,PADEP			
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0977	0.195	2	EPA 8270D	05/21/2019 08:26	05/22/2019 23:58	KH
								Certifications: NELAC-NY10854,NJDEP,PADEP			
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D	05/21/2019 08:26	05/22/2019 23:58	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D	05/21/2019 08:26	05/22/2019 23:58	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB007 (0-2) **York Sample ID:** 19E0591-21

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:40 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0977	0.195	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0977	0.195	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0977	0.195	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0977	0.195	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0977	0.195	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0977	0.195	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH

Sample Information

Client Sample ID: SB007 (0-2) **York Sample ID:** 19E0591-21

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:40 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-86-2	Acetophenone	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
62-53-3	Aniline	ND		mg/kg dry	0.196	0.391	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
92-87-5	Benzidine	ND		mg/kg dry	0.196	0.391	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
56-55-3	**Benzo(a)anthracene**	**0.214**		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
50-32-8	**Benzo(a)pyrene**	**0.284**		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
205-99-2	**Benzo(b)fluoranthene**	**0.252**		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.196**		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
207-08-9	**Benzo(k)fluoranthene**	**0.210**		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0977	0.195	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
218-01-9	**Chrysene**	**0.219**		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
53-70-3	**Dibenzo(a,h)anthracene**	**0.0609**	J	mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH

Sample Information

Client Sample ID: SB007 (0-2) **York Sample ID:** 19E0591-21

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:40 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
206-44-0	**Fluoranthene**	**0.362**		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
86-73-7	Fluorene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.216**		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
85-01-8	**Phenanthrene**	**0.133**		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
108-95-2	Phenol	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
129-00-0	**Pyrene**	**0.305**		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH
110-86-1	Pyridine	ND		mg/kg dry	0.196	0.391	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 23:58	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*64.4 %*	*20-108*

Sample Information

Client Sample ID: SB007 (0-2) **York Sample ID:** 19E0591-21

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:40 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-62-2	*Surrogate: SURR: Phenol-d5*	*69.2 %*			*23-114*						
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*80.6 %*			*22-108*						
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*76.1 %*			*21-113*						
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*71.7 %*			*19-110*						
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*73.8 %*			*24-116*						

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**	**11900**		mg/kg dry	5.90	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-36-0	Antimony	ND		mg/kg dry	2.95	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	**Arsenic**	**5.67**		mg/kg dry	1.77	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**147**		mg/kg dry	2.95	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	**Beryllium**	**0.320**		mg/kg dry	0.059	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**0.947**		mg/kg dry	0.354	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**11000**		mg/kg dry	5.90	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**15.4**		mg/kg dry	0.590	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	**Cobalt**	**8.65**		mg/kg dry	0.472	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**117**		mg/kg dry	2.36	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**18000**		mg/kg dry	29.5	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**101**		mg/kg dry	0.590	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**2920**		mg/kg dry	5.90	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**416**		mg/kg dry	0.590	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**18.8**		mg/kg dry	1.18	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1580**		mg/kg dry	5.90	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB007 (0-2) **York Sample ID:** 19E0591-21

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:40 pm	05/13/2019

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
7782-49-2	Selenium	ND		mg/kg dry	2.95	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:34	KML
7440-22-4	Silver	ND		mg/kg dry	0.590	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:34	KML
7440-23-5	**Sodium**	**444**		mg/kg dry	59.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:34	KML
7440-28-0	Thallium	ND		mg/kg dry	2.95	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:34	KML
7440-62-2	**Vanadium**	**23.1**		mg/kg dry	1.18	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:34	KML
7440-66-6	**Zinc**	**268**		mg/kg dry	2.95	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:34	KML

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**	**0.462**		mg/kg dry	0.0354	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 09:04	05/22/2019 19:32	SY

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**	**84.8**		%	0.100	1	SM 2540G Certifications: CTDOH	05/16/2019 22:16	05/17/2019 15:13	JTV

Sample Information

Client Sample ID: SB008 (6-8) **York Sample ID:** 19E0591-22

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

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	0.0568	0.113	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH

Sample Information

Client Sample ID: SB008 (6-8) **York Sample ID:** 19E0591-22

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.113	0.226	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.113	0.226	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.113	0.226	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
91-57-6	**2-Methylnaphthalene**	**0.0824**	J	mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.113	0.226	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.113	0.226	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH

Sample Information

Client Sample ID: SB008 (6-8) **York Sample ID:** 19E0591-22

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.113	0.226	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.113	0.226	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.113	0.226	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
83-32-9	**Acenaphthene**	**0.139**		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 NELAC-NY10854,NJDEP,PADEP	KH
62-53-3	Aniline	ND		mg/kg dry	0.227	0.454	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 NELAC-NY10854,NJDEP,PADEP	KH
120-12-7	**Anthracene**	**0.359**		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 NELAC-NY10854,NJDEP,PADEP	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 NELAC-NY10854,NJDEP,PADEP	KH
92-87-5	Benzidine	ND		mg/kg dry	0.227	0.454	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 CTDOH,NELAC-NY10854,PADEP	KH
56-55-3	**Benzo(a)anthracene**	**0.964**		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
50-32-8	**Benzo(a)pyrene**	**1.20**		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
205-99-2	**Benzo(b)fluoranthene**	**0.865**		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.798**		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
207-08-9	**Benzo(k)fluoranthene**	**0.717**		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 NELAC-NY10854,NJDEP,PADEP	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 NELAC-NY10854,NJDEP,PADEP	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 00:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB008 (6-8) **York Sample ID:** 19E0591-22

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.113	0.226	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
86-74-8	**Carbazole**	**0.111**	J	mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
218-01-9	**Chrysene**	**0.830**		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
53-70-3	**Dibenzo(a,h)anthracene**	**0.177**		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
132-64-9	**Dibenzofuran**	**0.0598**	J	mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
206-44-0	**Fluoranthene**	**1.80**		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
86-73-7	**Fluorene**	**0.129**		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.908**		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH

Sample Information

Client Sample ID: **SB008 (6-8)** **York Sample ID:** **19E0591-22**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
85-01-8	**Phenanthrene**	**1.35**		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
108-95-2	Phenol	ND		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
129-00-0	**Pyrene**	**1.63**		mg/kg dry	0.0568	0.113	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH
110-86-1	Pyridine	ND		mg/kg dry	0.227	0.454	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 00:27	KH

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*44.5 %*		*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*73.2 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*80.2 %*		*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*71.2 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*18.8 %*	S-08	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*72.9 %*		*24-116*

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**	**12700**		mg/kg dry	6.82	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:41	KML
7440-36-0	Antimony	ND		mg/kg dry	3.41	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:41	KML
7440-38-2	**Arsenic**	**4.78**		mg/kg dry	2.05	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:41	KML
7440-39-3	**Barium**	**56.5**		mg/kg dry	3.41	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:41	KML
7440-41-7	**Beryllium**	**0.258**		mg/kg dry	0.068	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:41	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.409	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:41	KML
7440-70-2	**Calcium**	**15900**		mg/kg dry	6.82	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:41	KML

Sample Information

Client Sample ID: SB008 (6-8) **York Sample ID:** 19E0591-22

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:00 am	05/13/2019

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
7440-47-3	**Chromium**	**17.3**		mg/kg dry	0.682	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:41	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-48-4	**Cobalt**	**8.83**		mg/kg dry	0.545	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:41	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-50-8	**Copper**	**19.8**		mg/kg dry	2.73	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:41	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-89-6	**Iron**	**17300**		mg/kg dry	34.1	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:41	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-92-1	**Lead**	**20.1**		mg/kg dry	0.682	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:41	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-95-4	**Magnesium**	**7310**		mg/kg dry	6.82	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:41	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**261**		mg/kg dry	0.682	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:41	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	**Nickel**	**16.6**		mg/kg dry	1.36	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:41	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**1630**		mg/kg dry	6.82	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:41	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		mg/kg dry	3.41	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:41	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/kg dry	0.682	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:41	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**284**		mg/kg dry	68.2	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:41	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		mg/kg dry	3.41	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:41	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	**Vanadium**	**26.4**		mg/kg dry	1.36	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:41	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**50.8**		mg/kg dry	3.41	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:41	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

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**	**0.244**		mg/kg dry	0.0409	1	EPA 7473	05/22/2019 14:45	05/22/2019 21:02	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,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

Sample Information

Client Sample ID: **SB008 (6-8)** **York Sample ID:** **19E0591-22**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:00 am	05/13/2019

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**	**73.3**		%	0.100	1	SM 2540G	05/17/2019 18:10	05/18/2019 15:58	TJM
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB008 (0-2)** **York Sample ID:** **19E0591-23**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:05 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications: NELAC-NY10854,NJDEP,PADEP			
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.113	0.225	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications: NELAC-NY10854,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications: NELAC-NY10854,PADEP			
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications: NELAC-NY10854,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications: NELAC-NY10854,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications: NELAC-NY10854,PADEP			
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.113	0.225	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications: NELAC-NY10854,NJDEP,PADEP			
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.113	0.225	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB008 (0-2) **York Sample ID:** 19E0591-23

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:05 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
91-57-6	**2-Methylnaphthalene**	**0.0740**	J	mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.113	0.225	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.113	0.225	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.113	0.225	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.113	0.225	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.113	0.225	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
208-96-8	**Acenaphthylene**	**0.0731**	J	mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
62-53-3	Aniline	ND		mg/kg dry	0.226	0.452	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH

Sample Information

Client Sample ID: SB008 (0-2) **York Sample ID:** 19E0591-23

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:05 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
92-87-5	Benzidine	ND		mg/kg dry	0.226	0.452	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
56-55-3	**Benzo(a)anthracene**	**0.188**		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
50-32-8	**Benzo(a)pyrene**	**0.261**		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
205-99-2	**Benzo(b)fluoranthene**	**0.261**		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.182**		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
207-08-9	**Benzo(k)fluoranthene**	**0.209**		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.113	0.225	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
218-01-9	**Chrysene**	**0.200**		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
53-70-3	**Dibenzo(a,h)anthracene**	**0.0604**	J	mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH

Sample Information

Client Sample ID: **SB008 (0-2)** **York Sample ID:** **19E0591-23**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:05 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	**Fluoranthene**	**0.281**		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	Fluorene	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.225**		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	Naphthalene	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
85-01-8	**Phenanthrene**	**0.131**		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-95-2	Phenol	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
129-00-0	**Pyrene**	**0.257**		mg/kg dry	0.0566	0.113	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
110-86-1	Pyridine	ND		mg/kg dry	0.226	0.452	2	EPA 8270D	05/21/2019 08:26	05/23/2019 00:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*86.9 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*88.1 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*94.7 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*85.8 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*81.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*83.4 %*	*24-116*

Sample Information

Client Sample ID: **SB008 (0-2)** **York Sample ID:** **19E0591-23**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:05 am	05/13/2019

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**	**4130**		mg/kg dry	6.81	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-36-0	Antimony	ND		mg/kg dry	3.40	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	**Arsenic**	**3.53**		mg/kg dry	2.04	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**62.1**		mg/kg dry	3.40	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	**Beryllium**	**0.208**		mg/kg dry	0.068	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		mg/kg dry	0.409	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**34200**		mg/kg dry	6.81	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**7.93**		mg/kg dry	0.681	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	**Cobalt**	**5.62**		mg/kg dry	0.545	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**37.5**		mg/kg dry	2.72	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**10600**		mg/kg dry	34.0	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**50.9**		mg/kg dry	0.681	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**3390**		mg/kg dry	6.81	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**160**		mg/kg dry	0.681	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**13.1**		mg/kg dry	1.36	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**752**		mg/kg dry	6.81	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	3.40	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.681	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**214**		mg/kg dry	68.1	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.40	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**11.9**		mg/kg dry	1.36	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB008 (0-2) **York Sample ID:** 19E0591-23

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:05 am	05/13/2019

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
7440-66-6	**Zinc**	**57.5**		mg/kg dry	3.40	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:43	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

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**	**0.0673**		mg/kg dry	0.0409	1	EPA 7473	05/22/2019 14:45	05/22/2019 21:48	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,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**	**73.4**		%	0.100	1	SM 2540G	05/17/2019 18:10	05/18/2019 15:58	TJM
							Certifications:	CTDOH		

Sample Information

Client Sample ID: SB008 (4-6) **York Sample ID:** 19E0591-24

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:10 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	0.0551	0.110	2	EPA 8270D	05/21/2019 08:26	05/23/2019 01:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.110	0.220	2	EPA 8270D	05/21/2019 08:26	05/23/2019 01:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D	05/21/2019 08:26	05/23/2019 01:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D	05/21/2019 08:26	05/23/2019 01:26	KH
								Certifications:	NELAC-NY10854,PADEP		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D	05/21/2019 08:26	05/23/2019 01:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D	05/21/2019 08:26	05/23/2019 01:26	KH
								Certifications:	NELAC-NY10854,PADEP		

Sample Information

Client Sample ID: SB008 (4-6) **York Sample ID:** 19E0591-24

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:10 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.110	0.220	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.110	0.220	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.110	0.220	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.110	0.220	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.110	0.220	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH

Sample Information

Client Sample ID: SB008 (4-6) **York Sample ID:** 19E0591-24

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:10 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.110	0.220	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.110	0.220	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
83-32-9	**Acenaphthene**	**0.105**	J	mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
62-53-3	Aniline	ND		mg/kg dry	0.220	0.440	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
120-12-7	**Anthracene**	**0.386**		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
92-87-5	Benzidine	ND		mg/kg dry	0.220	0.440	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,PADEP	05/23/2019 01:26	KH
56-55-3	**Benzo(a)anthracene**	**0.742**		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
50-32-8	**Benzo(a)pyrene**	**0.753**		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
205-99-2	**Benzo(b)fluoranthene**	**0.590**		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.457**		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
207-08-9	**Benzo(k)fluoranthene**	**0.473**		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.110	0.220	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH

Sample Information

Client Sample ID: SB008 (4-6) **York Sample ID:** 19E0591-24

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:10 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-74-8	Carbazole	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
218-01-9	**Chrysene**	**0.654**		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
53-70-3	**Dibenzo(a,h)anthracene**	**0.141**		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
132-64-9	**Dibenzofuran**	**0.0799**	J	mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
206-44-0	**Fluoranthene**	**1.49**		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
86-73-7	**Fluorene**	**0.122**		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.495**		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
91-20-3	**Naphthalene**	**0.0676**	J	mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
85-01-8	**Phenanthrene**	**0.999**		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH

Sample Information

Client Sample ID: **SB008 (4-6)** **York Sample ID:** **19E0591-24**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:10 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
129-00-0	**Pyrene**	**1.42**		mg/kg dry	0.0551	0.110	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH
110-86-1	Pyridine	ND		mg/kg dry	0.220	0.440	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:26	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*76.9 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*79.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*77.7 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*71.1 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*78.8 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*73.8 %*	*24-116*

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**	**5780**		mg/kg dry	6.61	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:45	KML
7440-36-0	Antimony	ND		mg/kg dry	3.31	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:45	KML
7440-38-2	**Arsenic**	**29.7**		mg/kg dry	1.98	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:45	KML
7440-39-3	**Barium**	**154**		mg/kg dry	3.31	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:45	KML
7440-41-7	**Beryllium**	**0.199**		mg/kg dry	0.066	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:45	KML
7440-43-9	**Cadmium**	**1.30**		mg/kg dry	0.397	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:45	KML
7440-70-2	**Calcium**	**15500**		mg/kg dry	6.61	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:45	KML
7440-47-3	**Chromium**	**14.3**		mg/kg dry	0.661	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:45	KML
7440-48-4	**Cobalt**	**6.25**		mg/kg dry	0.529	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:45	KML
7440-50-8	**Copper**	**336**		mg/kg dry	2.64	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:45	KML
7439-89-6	**Iron**	**13400**		mg/kg dry	33.1	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:45	KML
7439-92-1	**Lead**	**455**		mg/kg dry	0.661	1	EPA 6010D Certifications:	05/20/2019 14:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 18:45	KML

Sample Information

Client Sample ID: SB008 (4-6) **York Sample ID:** 19E0591-24

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 7:10 am	05/13/2019

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
7439-95-4	**Magnesium**	**5280**		mg/kg dry	6.61	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**235**		mg/kg dry	0.661	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**13.1**		mg/kg dry	1.32	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**850**		mg/kg dry	6.61	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	3.31	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.661	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**296**		mg/kg dry	66.1	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.31	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**19.0**		mg/kg dry	1.32	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**531**		mg/kg dry	3.31	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**0.746**		mg/kg dry	0.0397	1	EPA 7473	05/22/2019 14:45	05/22/2019 21:57	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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**	**75.6**		%	0.100	1	SM 2540G	05/17/2019 18:10	05/18/2019 15:58	TJM
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB009 (6-8) **York Sample ID:** 19E0591-25

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:10 am	05/13/2019

Sample Information

Client Sample ID: SB009 (6-8) **York Sample ID:** 19E0591-25

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:10 am	05/13/2019

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	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	RDS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 NELAC-NY10854,NELAC-NY12058,NJDEP	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.054	0.11	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 NELAC-NY10854,NELAC-NY12058,NJDEP	RDS

Sample Information

Client Sample ID: SB009 (6-8) **York Sample ID:** 19E0591-25

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:10 am	05/13/2019

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
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
67-64-1	**Acetone**	**0.0059**	CCV-E, J	mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
107-02-8	Acrolein	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-86-1	Bromobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:58 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS

Sample Information

Client Sample ID: SB009 (6-8) **York Sample ID:** 19E0591-25

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:10 am	05/13/2019

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
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
75-09-2	Methylene chloride	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 17:58	RDS
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 17:58	RDS
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0027	0.027	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS

Sample Information

Client Sample ID: SB009 (6-8) **York Sample ID:** 19E0591-25

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:10 am	05/13/2019

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
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
108-05-4	Vinyl acetate	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:58	RDS
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0082	0.016	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 17:58	RDS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*76-130*

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

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	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0946	0.189	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,PADEP	05/23/2019 01:55	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,PADEP	05/23/2019 01:55	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,PADEP	05/23/2019 01:55	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0946	0.189	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH

Sample Information

Client Sample ID: SB009 (6-8) **York Sample ID:** 19E0591-25

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:10 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0946	0.189	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0946	0.189	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0946	0.189	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0946	0.189	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0946	0.189	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0946	0.189	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
62-53-3	Aniline	ND		mg/kg dry	0.189	0.379	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH

Sample Information

Client Sample ID: SB009 (6-8) **York Sample ID:** 19E0591-25

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:10 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-12-7	Anthracene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
92-87-5	Benzidine	ND		mg/kg dry	0.189	0.379	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,PADEP	05/23/2019 01:55	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0946	0.189	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH

Sample Information

Client Sample ID: SB009 (6-8) **York Sample ID:** 19E0591-25

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:10 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
86-73-7	Fluorene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
108-95-2	Phenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH
110-86-1	Pyridine	ND		mg/kg dry	0.189	0.379	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 01:55	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*88.3 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*85.7 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*89.1 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*77.5 %*	*21-113*

Sample Information

Client Sample ID: SB009 (6-8) **York Sample ID:** 19E0591-25

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:10 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*91.4 %*			*19-110*						
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*78.6 %*			*24-116*						

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**	**10900**		mg/kg dry	5.69	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-36-0	Antimony	ND		mg/kg dry	2.85	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	Arsenic	ND		mg/kg dry	1.71	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-39-3	**Barium**	**93.3**		mg/kg dry	2.85	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		mg/kg dry	0.057	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	**Cadmium**	**2.25**		mg/kg dry	0.342	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-70-2	**Calcium**	**16200**		mg/kg dry	5.69	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-47-3	**Chromium**	**18.5**		mg/kg dry	0.569	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-48-4	**Cobalt**	**11.9**		mg/kg dry	0.455	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-50-8	**Copper**	**18.9**		mg/kg dry	2.28	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-89-6	**Iron**	**16900**		mg/kg dry	28.5	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-92-1	**Lead**	**6.24**		mg/kg dry	0.569	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-95-4	**Magnesium**	**14700**		mg/kg dry	5.69	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**1760**		mg/kg dry	0.569	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	**Nickel**	**21.5**		mg/kg dry	1.14	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**3240**		mg/kg dry	5.69	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		mg/kg dry	2.85	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/kg dry	0.569	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: SB009 (6-8) **York Sample ID:** 19E0591-25

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:10 am	05/13/2019

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
7440-23-5	**Sodium**	**267**		mg/kg dry	56.9	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	2.85	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**28.0**		mg/kg dry	1.14	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**474**		mg/kg dry	2.85	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:48	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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	0.0342	1	EPA 7473	05/22/2019 14:45	05/22/2019 22:10	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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**	**87.8**		%	0.100	1	SM 2540G	05/17/2019 18:10	05/18/2019 15:58	TJM
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB009 (2-4) **York Sample ID:** 19E0591-26

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:00 am	05/13/2019

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	0.0031	0.0061	1	EPA 8260C	05/16/2019 07:30	05/16/2019 18:25	RDS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C	05/16/2019 07:30	05/16/2019 18:25	RDS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C	05/16/2019 07:30	05/16/2019 18:25	RDS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: SB009 (2-4) **York Sample ID:** 19E0591-26

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:00 am	05/13/2019

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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	RDS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.061	0.12	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP	RDS
78-93-3	2-Butanone	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
591-78-6	2-Hexanone	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS

Sample Information

Client Sample ID: SB009 (2-4) **York Sample ID:** 19E0591-26

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:00 am	05/13/2019

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
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
67-64-1	Acetone	ND		mg/kg dry	0.0061	0.012	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
107-02-8	Acrolein	ND		mg/kg dry	0.0061	0.012	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
71-43-2	Benzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-86-1	Bromobenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-25-2	Bromoform	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
74-83-9	Bromomethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-00-3	Chloroethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
67-66-3	Chloroform	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
74-87-3	Chloromethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
110-82-7	Cyclohexane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
74-95-3	Dibromomethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS

Sample Information

Client Sample ID: SB009 (2-4) **York Sample ID:** 19E0591-26

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:00 am	05/13/2019

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	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
79-20-9	Methyl acetate	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-09-2	**Methylene chloride**	**0.0068**	J	mg/kg dry	0.0061	0.012	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
95-47-6	o-Xylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	RDS
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0061	0.012	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	RDS
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
100-42-5	Styrene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0031	0.031	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-88-3	Toluene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-05-4	Vinyl acetate	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS

Sample Information

Client Sample ID: SB009 (2-4) **York Sample ID:** 19E0591-26

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:00 am	05/13/2019

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	0.0031	0.0061	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:25	RDS
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0092	0.018	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 18:25	RDS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*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 3550C

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	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/22/2019 00:15	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0967	0.193	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/22/2019 00:15	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 00:15	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,PADEP	05/22/2019 00:15	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/22/2019 00:15	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,PADEP	05/22/2019 00:15	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,PADEP	05/22/2019 00:15	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0967	0.193	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/22/2019 00:15	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 00:15	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 00:15	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 00:15	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 00:15	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0967	0.193	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 00:15	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 00:15	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 00:15	SR

Sample Information

Client Sample ID: SB009 (2-4) **York Sample ID:** 19E0591-26

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0967	0.193	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 NELAC-NY10854,NJDEP,PADEP	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0967	0.193	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0967	0.193	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0967	0.193	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0967	0.193	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
83-32-9	Acenaphthene	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
208-96-8	**Acenaphthylene**	**0.0727**	J	mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 NELAC-NY10854,NJDEP,PADEP	SR
62-53-3	Aniline	ND		mg/kg dry	0.194	0.387	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 NELAC-NY10854,NJDEP,PADEP	SR
120-12-7	**Anthracene**	**0.144**		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 NELAC-NY10854,NJDEP,PADEP	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 00:15 NELAC-NY10854,NJDEP,PADEP	SR

Sample Information

Client Sample ID: SB009 (2-4) **York Sample ID:** 19E0591-26

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-87-5	Benzidine	ND		mg/kg dry	0.194	0.387	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
56-55-3	**Benzo(a)anthracene**	**0.897**		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
50-32-8	**Benzo(a)pyrene**	**1.04**		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
205-99-2	**Benzo(b)fluoranthene**	**0.726**		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
191-24-2	**Benzo(g,h,i)perylene**	**0.581**		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
207-08-9	**Benzo(k)fluoranthene**	**0.712**		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0967	0.193	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
218-01-9	**Chrysene**	**0.833**		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
53-70-3	**Dibenzo(a,h)anthracene**	**0.176**		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
206-44-0	**Fluoranthene**	**1.30**		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR

Sample Information

Client Sample ID: SB009 (2-4) **York Sample ID:** 19E0591-26

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

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	0.0485	0.0967	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.628**		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
85-01-8	**Phenanthrene**	**0.447**		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
108-95-2	Phenol	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
129-00-0	**Pyrene**	**1.38**		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
110-86-1	Pyridine	ND		mg/kg dry	0.194	0.387	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*59.5 %*		*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*70.3 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*83.4 %*		*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*76.7 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*146 %*	S-08	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*88.2 %*		*24-116*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **SB009 (2-4)** **York Sample ID:** **19E0591-26**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:00 am	05/13/2019

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**	**4740**		mg/kg dry	5.84	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-36-0	Antimony	ND		mg/kg dry	2.92	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	**Arsenic**	**6.39**		mg/kg dry	1.75	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**278**		mg/kg dry	2.92	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	**Beryllium**	**0.282**		mg/kg dry	0.058	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**1.21**		mg/kg dry	0.350	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**8070**		mg/kg dry	5.84	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**10.2**		mg/kg dry	0.584	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	**Cobalt**	**8.13**		mg/kg dry	0.467	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**244**		mg/kg dry	2.33	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**10100**		mg/kg dry	29.2	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**357**		mg/kg dry	0.584	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**1370**		mg/kg dry	5.84	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**145**		mg/kg dry	0.584	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**15.3**		mg/kg dry	1.17	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**560**		mg/kg dry	5.84	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	2.92	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.584	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**217**		mg/kg dry	58.4	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	2.92	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**22.8**		mg/kg dry	1.17	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**385**		mg/kg dry	2.92	1	EPA 6010D	05/20/2019 14:51	05/20/2019 18:50	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB009 (2-4) **York Sample ID:** 19E0591-26

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:00 am	05/13/2019

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**	**0.347**		mg/kg dry	0.0350	1	EPA 7473	05/22/2019 14:45	05/22/2019 22:18	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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**	**85.7**		%	0.100	1	SM 2540G	05/17/2019 18:10	05/18/2019 15:58	TJM
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB009 (8-10) **York Sample ID:** 19E0591-27

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:05 am	05/13/2019

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	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP			

Sample Information

Client Sample ID: SB009 (8-10) **York Sample ID:** 19E0591-27

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:05 am	05/13/2019

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
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
123-91-1	1,4-Dioxane	ND		mg/kg dry	4.3	8.6	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 NELAC-NY10854,NELAC-NY12058,NJDEP	SS
78-93-3	2-Butanone	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
591-78-6	2-Hexanone	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-64-1	Acetone	ND		mg/kg dry	0.43	0.86	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-02-8	Acrolein	ND		mg/kg dry	0.43	0.86	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
71-43-2	Benzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-86-1	Bromobenzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: SB009 (8-10) **York Sample ID:** 19E0591-27

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:05 am	05/13/2019

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
74-97-5	Bromochloromethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-25-2	Bromoform	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-83-9	Bromomethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-66-3	Chloroform	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-87-3	Chloromethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
110-82-7	Cyclohexane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-95-3	Dibromomethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
98-82-8	**Isopropylbenzene**	**0.24**	J	mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-20-9	Methyl acetate	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-09-2	Methylene chloride	ND		mg/kg dry	0.43	0.86	100	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 12:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: SB009 (8-10) **York Sample ID:** 19E0591-27

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:05 am	05/13/2019

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
104-51-8	**n-Butylbenzene**	**0.63**		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	**n-Propylbenzene**	**0.39**	J	mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.43	0.86	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	**sec-Butylbenzene**	**1.5**		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-42-5	Styrene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.21	2.1	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	**tert-Butylbenzene**	**0.40**	J	mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-05-4	Vinyl acetate	ND		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.21	0.43	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.64	1.3	100	EPA 8260C	05/17/2019 07:30	05/17/2019 12:57	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*89.4 %*		*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.3 %*		*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*154 %*	S-09	*76-130*

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: SB009 (8-10) **York Sample ID:** 19E0591-27

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:05 am	05/13/2019

Sample Prepared by Method: EPA 3550C

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	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.480	0.960	10	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,PADEP	05/23/2019 02:53	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,PADEP	05/23/2019 02:53	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,PADEP	05/23/2019 02:53	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.480	0.960	10	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.480	0.960	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.480	0.960	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.480	0.960	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH

Sample Information

Client Sample ID: SB009 (8-10) **York Sample ID:** 19E0591-27

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:05 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.480	0.960	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.480	0.960	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.480	0.960	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 NELAC-NY10854,NJDEP,PADEP	KH
62-53-3	Aniline	ND		mg/kg dry	0.962	1.92	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 NELAC-NY10854,NJDEP,PADEP	KH
120-12-7	Anthracene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 NELAC-NY10854,NJDEP,PADEP	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 NELAC-NY10854,NJDEP,PADEP	KH
92-87-5	Benzidine	ND		mg/kg dry	0.962	1.92	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,PADEP	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 NELAC-NY10854,NJDEP,PADEP	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 NELAC-NY10854,NJDEP,PADEP	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB009 (8-10) **York Sample ID:** 19E0591-27

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:05 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.480	0.960	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 NELAC-NY10854,NJDEP,PADEP	KH
86-74-8	Carbazole	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
218-01-9	Chrysene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
86-73-7	Fluorene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 NELAC-NY10854,NJDEP,PADEP	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
78-59-1	Isophorone	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 02:53 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB009 (8-10) **York Sample ID:** 19E0591-27

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:05 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
108-95-2	Phenol	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
129-00-0	Pyrene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH
110-86-1	Pyridine	ND		mg/kg dry	0.962	1.92	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 02:53	KH

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*77.2 %*		*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*76.4 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*197 %*	S-01	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*72.0 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*73.6 %*		*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*72.8 %*		*24-116*

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**	**17900**		mg/kg dry	5.82	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:35	KML
7440-36-0	Antimony	ND		mg/kg dry	2.91	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:35	KML
7440-38-2	**Arsenic**	**2.37**		mg/kg dry	1.75	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:35	KML
7440-39-3	**Barium**	**166**		mg/kg dry	2.91	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:35	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.058	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:35	KML
7440-43-9	**Cadmium**	**0.426**		mg/kg dry	0.349	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:35	KML
7440-70-2	**Calcium**	**12400**		mg/kg dry	5.82	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:35	KML

Sample Information

Client Sample ID: SB009 (8-10) **York Sample ID:** 19E0591-27

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:05 am	05/13/2019

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
7440-47-3	**Chromium**	**26.5**		mg/kg dry	0.582	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:35	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-48-4	**Cobalt**	**20.9**		mg/kg dry	0.465	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:35	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-50-8	**Copper**	**44.2**		mg/kg dry	2.33	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:35	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-89-6	**Iron**	**29700**		mg/kg dry	29.1	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:35	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-92-1	**Lead**	**77.8**		mg/kg dry	0.582	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:35	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-95-4	**Magnesium**	**15100**		mg/kg dry	5.82	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:35	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**226**		mg/kg dry	0.582	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:35	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	**Nickel**	**39.6**		mg/kg dry	1.16	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:35	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**8920**		mg/kg dry	5.82	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:35	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		mg/kg dry	2.91	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:35	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/kg dry	0.582	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:35	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**801**		mg/kg dry	58.2	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:35	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		mg/kg dry	2.91	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:35	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	**Vanadium**	**46.3**		mg/kg dry	1.16	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:35	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**104**		mg/kg dry	2.91	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:35	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

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**	**0.243**		mg/kg dry	0.0349	1	EPA 7473	05/22/2019 14:45	05/22/2019 22:27	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,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

Sample Information

Client Sample ID: SB009 (8-10) **York Sample ID:** 19E0591-27

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 8:05 am	05/13/2019

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	85.9		%	0.100	1	SM 2540G Certifications: CTDOH	05/17/2019 18:10	05/18/2019 15:58	TJM

Sample Information

Client Sample ID: SB010 (0-2) **York Sample ID:** 19E0591-28

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:45 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

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	1.29	2.57	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	2.57	5.14	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	2.57	5.14	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	2.57	5.14	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH

Sample Information

Client Sample ID: SB010 (0-2) **York Sample ID:** 19E0591-28

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:45 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
95-57-8	2-Chlorophenol	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
95-48-7	2-Methylphenol	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
88-74-4	2-Nitroaniline	ND		mg/kg dry	2.57	5.14	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
88-75-5	2-Nitrophenol	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH NELAC-NY10854,NJDEP,PADEP
99-09-2	3-Nitroaniline	ND		mg/kg dry	2.57	5.14	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	2.57	5.14	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
106-47-8	4-Chloroaniline	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
100-01-6	4-Nitroaniline	ND		mg/kg dry	2.57	5.14	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
100-02-7	4-Nitrophenol	ND		mg/kg dry	2.57	5.14	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
83-32-9	Acenaphthene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
208-96-8	Acenaphthylene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
98-86-2	Acetophenone	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH NELAC-NY10854,NJDEP,PADEP
62-53-3	Aniline	ND		mg/kg dry	5.15	10.3	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH NELAC-NY10854,NJDEP,PADEP
120-12-7	Anthracene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH CTDOH,NELAC-NY10854,NJDEP,PADEP
1912-24-9	Atrazine	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:22	KH NELAC-NY10854,NJDEP,PADEP

Sample Information

Client Sample ID: SB010 (0-2) **York Sample ID:** 19E0591-28

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:45 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-52-7	Benzaldehyde	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
92-87-5	Benzidine	ND		mg/kg dry	5.15	10.3	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
65-85-0	Benzoic acid	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
105-60-2	Caprolactam	ND		mg/kg dry	2.57	5.14	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
86-74-8	Carbazole	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
218-01-9	Chrysene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH

Sample Information

Client Sample ID: SB010 (0-2) **York Sample ID:** 19E0591-28

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:45 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	Fluoranthene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:22	KH
86-73-7	Fluorene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:22	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:22	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:22	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:22	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:22	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:22	KH
78-59-1	Isophorone	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:22	KH
91-20-3	Naphthalene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:22	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:22	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:22	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:22	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:22	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:22	KH
85-01-8	Phenanthrene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:22	KH
108-95-2	Phenol	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:22	KH
129-00-0	Pyrene	ND		mg/kg dry	1.29	2.57	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:22	KH
110-86-1	Pyridine	ND		mg/kg dry	5.15	10.3	10	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:22	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*66.0 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*66.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*82.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*66.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*68.0 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*70.0 %*	*24-116*

Sample Information

Client Sample ID: SB010 (0-2) **York Sample ID:** 19E0591-28

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:45 pm	05/13/2019

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**	**3580**		mg/kg dry	6.23	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-36-0	Antimony	ND		mg/kg dry	3.12	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	**Arsenic**	**3.89**		mg/kg dry	1.87	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**32.9**		mg/kg dry	3.12	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	**Beryllium**	**0.062**	B	mg/kg dry	0.062	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**0.424**		mg/kg dry	0.374	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**73600**		mg/kg dry	6.23	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**11.1**		mg/kg dry	0.623	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	**Cobalt**	**4.43**		mg/kg dry	0.499	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**21.2**		mg/kg dry	2.49	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**10900**		mg/kg dry	31.2	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**62.4**		mg/kg dry	0.623	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**39200**		mg/kg dry	6.23	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**240**		mg/kg dry	0.623	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**9.45**		mg/kg dry	1.25	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**847**		mg/kg dry	6.23	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	**Selenium**	**18.8**		mg/kg dry	3.12	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.623	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**156**		mg/kg dry	62.3	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.12	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**14.7**		mg/kg dry	1.25	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB010 (0-2) **York Sample ID:** 19E0591-28

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:45 pm	05/13/2019

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
7440-66-6	**Zinc**	**72.7**		mg/kg dry	3.12	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:38	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

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**	**0.216**		mg/kg dry	0.0374	1	EPA 7473	05/22/2019 14:45	05/22/2019 22:36	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,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**	**80.2**		%	0.100	1	SM 2540G	05/17/2019 18:10	05/18/2019 15:58	TJM
							Certifications:	CTDOH		

Sample Information

Client Sample ID: SB010 (6-8) **York Sample ID:** 19E0591-29

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:50 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

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	0.0546	0.109	2	EPA 8270D	05/21/2019 08:26	05/23/2019 03:51	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.109	0.218	2	EPA 8270D	05/21/2019 08:26	05/23/2019 03:51	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D	05/21/2019 08:26	05/23/2019 03:51	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D	05/21/2019 08:26	05/23/2019 03:51	KH
								Certifications:	NELAC-NY10854,PADEP		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D	05/21/2019 08:26	05/23/2019 03:51	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D	05/21/2019 08:26	05/23/2019 03:51	KH
								Certifications:	NELAC-NY10854,PADEP		

Sample Information

Client Sample ID: SB010 (6-8) **York Sample ID:** 19E0591-29

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:50 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,PADEP	05/23/2019 03:51	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH

Sample Information

Client Sample ID: SB010 (6-8) **York Sample ID:** 19E0591-29

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:50 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 NELAC-NY10854,NJDEP,PADEP	KH
62-53-3	Aniline	ND		mg/kg dry	0.218	0.437	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 NELAC-NY10854,NJDEP,PADEP	KH
120-12-7	**Anthracene**	**0.0819**	J	mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 NELAC-NY10854,NJDEP,PADEP	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 NELAC-NY10854,NJDEP,PADEP	KH
92-87-5	Benzidine	ND		mg/kg dry	0.218	0.437	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,PADEP	KH
56-55-3	**Benzo(a)anthracene**	**0.252**		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
50-32-8	**Benzo(a)pyrene**	**0.281**		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
205-99-2	**Benzo(b)fluoranthene**	**0.219**		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.196**		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
207-08-9	**Benzo(k)fluoranthene**	**0.186**		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 NELAC-NY10854,NJDEP,PADEP	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 NELAC-NY10854,NJDEP,PADEP	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB010 (6-8) **York Sample ID:** 19E0591-29

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:50 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-74-8	Carbazole	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
218-01-9	**Chrysene**	**0.227**		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
206-44-0	**Fluoranthene**	**0.459**		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
86-73-7	Fluorene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 NELAC-NY10854,NJDEP,PADEP	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.217**		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
85-01-8	**Phenanthrene**	**0.315**		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 03:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH

Sample Information

Client Sample ID: SB010 (6-8) **York Sample ID:** 19E0591-29

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:50 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
129-00-0	**Pyrene**	**0.383**		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH
110-86-1	Pyridine	ND		mg/kg dry	0.218	0.437	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 03:51	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*77.8 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*79.1 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*82.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*74.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*74.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*75.1 %*	*24-116*

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**	**5830**		mg/kg dry	6.60	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:40	KML
7440-36-0	Antimony	ND		mg/kg dry	3.30	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:40	KML
7440-38-2	**Arsenic**	**4.18**		mg/kg dry	1.98	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:40	KML
7440-39-3	**Barium**	**53.1**		mg/kg dry	3.30	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:40	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.066	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:40	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.396	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:40	KML
7440-70-2	**Calcium**	**2900**		mg/kg dry	6.60	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:40	KML
7440-47-3	**Chromium**	**12.9**		mg/kg dry	0.660	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:40	KML
7440-48-4	**Cobalt**	**8.36**		mg/kg dry	0.528	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:40	KML
7440-50-8	**Copper**	**35.0**		mg/kg dry	2.64	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:40	KML
7439-89-6	**Iron**	**10600**		mg/kg dry	33.0	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:40	KML
7439-92-1	**Lead**	**52.1**		mg/kg dry	0.660	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:40	KML

Sample Information

Client Sample ID: SB010 (6-8) **York Sample ID:** 19E0591-29

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:50 pm	05/13/2019

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
7439-95-4	**Magnesium**	**3060**		mg/kg dry	6.60	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:40	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**183**		mg/kg dry	0.660	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:40	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**17.0**		mg/kg dry	1.32	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:40	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1260**		mg/kg dry	6.60	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:40	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	3.30	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:40	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.660	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:40	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**290**		mg/kg dry	66.0	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:40	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.30	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:40	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**19.1**		mg/kg dry	1.32	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:40	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**56.3**		mg/kg dry	3.30	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:40	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**0.258**		mg/kg dry	0.0396	1	EPA 7473	05/22/2019 14:45	05/22/2019 22:45	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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**	**75.7**		%	0.100	1	SM 2540G	05/17/2019 18:10	05/18/2019 15:58	TJM
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB010 (2-4) **York Sample ID:** 19E0591-30

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:30 pm	05/13/2019

Sample Information

Client Sample ID: **SB010 (2-4)** **York Sample ID:** **19E0591-30**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:30 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

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**	**0.551**		mg/kg dry	0.0526	0.105	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: NELAC-NY10854,NJDEP,PADEP			
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.105	0.210	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: NELAC-NY10854,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: NELAC-NY10854,PADEP			
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: NELAC-NY10854,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: NELAC-NY10854,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: NELAC-NY10854,PADEP			
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: NELAC-NY10854,NJDEP,PADEP			
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-57-6	**2-Methylnaphthalene**	**1.14**		mg/kg dry	0.0526	0.105	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.105	0.210	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D	05/21/2019 08:26	05/22/2019 01:20	SR
								Certifications: NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB010 (2-4) **York Sample ID:** 19E0591-30

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:30 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 01:20 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 01:20 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 01:20 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 01:20 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 01:20 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 01:20 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 01:20 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 01:20 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
83-32-9	**Acenaphthene**	**3.12**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 01:20 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
208-96-8	**Acenaphthylene**	**0.186**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 01:20 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 01:20 NELAC-NY10854,NJDEP,PADEP	SR
62-53-3	Aniline	ND		mg/kg dry	0.210	0.421	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 01:20 NELAC-NY10854,NJDEP,PADEP	SR
120-12-7	**Anthracene**	**6.73**		mg/kg dry	0.658	1.31	25	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 04:20 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 01:20 NELAC-NY10854,NJDEP,PADEP	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 01:20 NELAC-NY10854,NJDEP,PADEP	SR
92-87-5	Benzidine	ND		mg/kg dry	0.210	0.421	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 01:20 CTDOH,NELAC-NY10854,PADEP	SR
56-55-3	**Benzo(a)anthracene**	**22.7**		mg/kg dry	0.658	1.31	25	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 04:20 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
50-32-8	**Benzo(a)pyrene**	**23.5**		mg/kg dry	0.658	1.31	25	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 04:20 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
205-99-2	**Benzo(b)fluoranthene**	**19.7**		mg/kg dry	0.658	1.31	25	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 04:20 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
191-24-2	**Benzo(g,h,i)perylene**	**14.0**		mg/kg dry	0.658	1.31	25	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 04:20 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
207-08-9	**Benzo(k)fluoranthene**	**15.2**		mg/kg dry	0.658	1.31	25	EPA 8270D Certifications:	05/21/2019 08:26	05/23/2019 04:20 CTDOH,NELAC-NY10854,NJDEP,PADEP	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 01:20 NELAC-NY10854,NJDEP,PADEP	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 01:20 NELAC-NY10854,NJDEP,PADEP	SR

Sample Information

Client Sample ID: SB010 (2-4) **York Sample ID:** 19E0591-30

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:30 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 01:20	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 01:20	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 01:20	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 01:20	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 01:20	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/22/2019 01:20	SR
86-74-8	**Carbazole**	**1.57**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 01:20	SR
218-01-9	**Chrysene**	**20.3**		mg/kg dry	0.658	1.31	25	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:20	KH
53-70-3	**Dibenzo(a,h)anthracene**	**3.42**		mg/kg dry	0.658	1.31	25	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:20	KH
132-64-9	**Dibenzofuran**	**2.24**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 01:20	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 01:20	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 01:20	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 01:20	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 01:20	SR
206-44-0	**Fluoranthene**	**48.2**		mg/kg dry	0.658	1.31	25	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:20	KH
86-73-7	**Fluorene**	**2.42**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/22/2019 01:20	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 01:20	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 01:20	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 01:20	SR
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 01:20	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**16.0**		mg/kg dry	0.658	1.31	25	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:20	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 01:20	SR
91-20-3	**Naphthalene**	**8.47**		mg/kg dry	0.658	1.31	25	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:20	KH

Sample Information

Client Sample ID: SB010 (2-4) **York Sample ID:** 19E0591-30

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:30 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
85-01-8	**Phenanthrene**	**30.7**		mg/kg dry	0.658	1.31	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:20	KH
108-95-2	Phenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
129-00-0	**Pyrene**	**40.9**		mg/kg dry	0.658	1.31	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:20	KH
110-86-1	Pyridine	ND		mg/kg dry	0.210	0.421	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*46.9 %*		*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*76.4 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*64.7 %*		*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*75.8 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*150 %*	S-08	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*88.2 %*		*24-116*

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**	**5660**		mg/kg dry	6.36	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:42	KML
7440-36-0	Antimony	ND		mg/kg dry	3.18	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:42	KML
7440-38-2	**Arsenic**	**5.33**		mg/kg dry	1.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:42	KML
7440-39-3	**Barium**	**55.0**		mg/kg dry	3.18	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:42	KML
7440-41-7	**Beryllium**	**0.084**	B	mg/kg dry	0.064	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:42	KML
7440-43-9	**Cadmium**	**2.40**		mg/kg dry	0.382	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:42	KML

Sample Information

Client Sample ID: SB010 (2-4) **York Sample ID:** 19E0591-30

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:30 pm	05/13/2019

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
7440-70-2	**Calcium**	**16900**		mg/kg dry	6.36	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:42	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**9.77**		mg/kg dry	0.636	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:42	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	**Cobalt**	**5.11**		mg/kg dry	0.509	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:42	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**1430**		mg/kg dry	2.54	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:42	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**13500**		mg/kg dry	31.8	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:42	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**779**		mg/kg dry	0.636	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:42	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**7550**		mg/kg dry	6.36	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:42	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**240**		mg/kg dry	0.636	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:42	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**19.7**		mg/kg dry	1.27	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:42	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**923**		mg/kg dry	6.36	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:42	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	3.18	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:42	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.636	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:42	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**198**		mg/kg dry	63.6	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:42	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.18	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:42	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**15.4**		mg/kg dry	1.27	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:42	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**1430**		mg/kg dry	3.18	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:42	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**0.315**		mg/kg dry	0.0382	1	EPA 7473	05/22/2019 14:45	05/22/2019 22:55	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SB010 (2-4) **York Sample ID:** 19E0591-30

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 1:30 pm	05/13/2019

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**	**78.6**		%	0.100	1	SM 2540G	05/17/2019 18:10	05/18/2019 15:58	TJM
							Certifications: CTDOH			

Sample Information

Client Sample ID: MW001 **York Sample ID:** 19E0591-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 7:30 am	05/13/2019

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	05/16/2019 07:30	05/16/2019 14:45	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 14:45	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 14:45	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 14:45	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 14:45	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 14:45	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 14:45	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 14:45	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 14:45	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 14:45	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 14:45	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 14:45	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 14:45	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 14:45	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 14:45	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: **MW001** **York Sample ID:** **19E0591-31**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 7:30 am	05/13/2019

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
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-64-1	**Acetone**	**1.06**	J	ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: MW001 **York Sample ID:** 19E0591-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 7:30 am	05/13/2019

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
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: MW001 **York Sample ID:** 19E0591-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 7:30 am	05/13/2019

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
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:45	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:45	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:45	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:45	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:45	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:45	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:45	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:45	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:45	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:45	SS
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:45	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:45	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 14:45	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*99.1 %*	*70-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.7 %*	*70-130*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*110 %*	*70-130*

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

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	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/28/2019 15:56	KH

Sample Information

Client Sample ID: MW001 **York Sample ID:** 19E0591-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 7:30 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:** EXT-EM

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
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
95-48-7	2-Methylphenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH

Sample Information

Client Sample ID: MW001 **York Sample ID:** 19E0591-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 7:30 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:** EXT-EM

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
106-47-8	4-Chloroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
100-02-7	4-Nitrophenol	ND		ug/L	5.71	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
98-86-2	Acetophenone	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
62-53-3	Aniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
100-52-7	Benzaldehyde	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
92-87-5	Benzidine	ND		ug/L	5.71	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
65-85-0	Benzoic acid	ND		ug/L	28.6	57.1	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.14	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
105-60-2	Caprolactam	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
86-74-8	Carbazole	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
132-64-9	Dibenzofuran	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.71	11.4	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH
78-59-1	Isophorone	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 15:56	KH

Sample Information

Client Sample ID: MW001 **York Sample ID:** 19E0591-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 7:30 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

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
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
108-95-2	Phenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
110-86-1	Pyridine	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*58.7 %*	*19.7-63.1*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*36.7 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*107 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*97.4 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*112 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*93.9 %*	*30.7-106*

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

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**	**0.0800**		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:25	KH
208-96-8	**Acenaphthylene**	**0.206**		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:25	KH
120-12-7	**Anthracene**	**0.229**		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:25	KH
1912-24-9	Atrazine	ND		ug/L	0.571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 22:25	KH
56-55-3	**Benzo(a)anthracene**	**0.823**		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:25	KH
50-32-8	**Benzo(a)pyrene**	**0.971**		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:25	KH
205-99-2	**Benzo(b)fluoranthene**	**1.04**		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:25	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.434**		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:25	KH
207-08-9	**Benzo(k)fluoranthene**	**0.823**		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:25	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 22:25	KH
218-01-9	**Chrysene**	**0.846**		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:25	KH

Sample Information

Client Sample ID: MW001 **York Sample ID:** 19E0591-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 7:30 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

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
53-70-3	**Dibenzo(a,h)anthracene**	**0.171**		ug/L	0.0571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 22:25	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
206-44-0	**Fluoranthene**	**1.69**		ug/L	0.0571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 22:25	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
86-73-7	**Fluorene**	**0.0914**		ug/L	0.0571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 22:25	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
118-74-1	Hexachlorobenzene	ND		ug/L	0.0229	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 22:25	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 22:25	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
67-72-1	Hexachloroethane	ND		ug/L	0.571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 22:25	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.400**		ug/L	0.0571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 22:25	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-20-3	**Naphthalene**	**0.0914**		ug/L	0.0571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 22:25	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-95-3	Nitrobenzene	ND		ug/L	0.286	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 22:25	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 22:25	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
87-86-5	Pentachlorophenol	ND		ug/L	0.286	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 22:25	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
85-01-8	**Phenanthrene**	**0.903**		ug/L	0.0571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 22:25	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	**Pyrene**	**1.49**		ug/L	0.0571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 22:25	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Pesticides, 8081 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	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 12:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-55-9	4,4'-DDE	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 12:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-29-3	4,4'-DDT	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 12:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
309-00-2	Aldrin	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 12:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-84-6	alpha-BHC	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 12:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
5103-71-9	alpha-Chlordane	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 12:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-85-7	beta-BHC	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 12:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: MW001 **York Sample ID:** 19E0591-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 7:30 am	05/13/2019

Pesticides, 8081 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
319-86-8	delta-BHC	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 12:55	CM
60-57-1	Dieldrin	ND		ug/L	0.00216	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 12:55	CM
959-98-8	Endosulfan I	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 12:55	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 12:55	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 12:55	CM
72-20-8	Endrin	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 12:55	CM
7421-93-4	Endrin aldehyde	ND		ug/L	0.0108	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 12:55	CM
53494-70-5	Endrin ketone	ND		ug/L	0.0108	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 12:55	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 12:55	CM
5566-34-7	gamma-Chlordane	ND		ug/L	0.0108	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 12:55	CM
76-44-8	Heptachlor	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 12:55	CM
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 12:55	CM
72-43-5	Methoxychlor	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 12:55	CM
8001-35-2	Toxaphene	ND		ug/L	0.108	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 12:55	CM
57-74-9	* Chlordane, total	ND		ug/L	0.216	1	EPA 8081B Certifications:	05/16/2019 10:56	05/20/2019 12:55	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*61.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*62.7 %*	*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	0.0541	1	EPA 8082A Certifications:	05/16/2019 10:56 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 17:24	SR
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA 8082A Certifications:	05/16/2019 10:56 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 17:24	SR
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA 8082A Certifications:	05/16/2019 10:56 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/23/2019 17:24	SR

Sample Information

Client Sample ID: MW001 **York Sample ID:** 19E0591-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 7:30 am	05/13/2019

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
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/23/2019 17:24	SR
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/23/2019 17:24	SR
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/23/2019 17:24	SR
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/23/2019 17:24	SR
1336-36-3	* Total PCBs	ND		ug/L	0.0541	1	EPA 8082A Certifications:	05/16/2019 10:56	05/23/2019 17:24	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*98.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*104 %*	*30-150*

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**	**7020**		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:21	KML
7440-39-3	**Barium**	**336**		ug/L	27.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:21	KML
7440-70-2	**Calcium**	**203000**		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:21	KML
7440-47-3	**Chromium**	**50.2**		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:21	KML
7440-48-4	**Cobalt**	**15.3**		ug/L	4.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:21	KML
7440-50-8	**Copper**	**125**		ug/L	22.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:21	KML
7439-89-6	**Iron**	**56800**		ug/L	278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:21	KML
7439-92-1	**Lead**	**711**		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:21	KML
7439-95-4	**Magnesium**	**39700**		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:21	KML
7439-96-5	**Manganese**	**2770**		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:21	KML
7440-02-0	**Nickel**	**37.1**		ug/L	11.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:21	KML
7440-09-7	**Potassium**	**21800**		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:21	KML

Sample Information

Client Sample ID: MW001 **York Sample ID:** 19E0591-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 7:30 am	05/13/2019

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
7440-22-4	Silver	ND		ug/L	5.56	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**525000**		ug/L	556	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**50.9**		ug/L	11.1	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**408**		ug/L	27.8	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Metals, Target Analyte, ICP Dissolved

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	ND		mg/L	0.0556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**0.128**		mg/L	0.0278	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**157**		mg/L	0.0556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**27.7**		mg/L	0.0556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**1.52**		mg/L	0.00556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**15.6**		mg/L	0.0556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**453**		mg/L	0.556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: MW001 **York Sample ID:** 19E0591-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 7:30 am	05/13/2019

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	05/15/2019 13:47	05/16/2019 13:20	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	**Arsenic**	**28.3**		ug/L	1.11	1	EPA 6020B	05/15/2019 13:47	05/16/2019 13:20	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	05/15/2019 13:47	05/16/2019 13:20	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**1.30**		ug/L	0.556	1	EPA 6020B	05/15/2019 13:47	05/16/2019 13:20	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	**Selenium**	**20.5**		ug/L	1.11	1	EPA 6020B	05/15/2019 13:47	05/16/2019 13:20	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	05/15/2019 13:47	05/16/2019 13:20	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Metals, Target Analyte, ICPMS Dissolved

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	11.1	10	EPA 6020B	05/17/2019 16:34	05/20/2019 15:11	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	Arsenic	ND		ug/L	11.1	10	EPA 6020B	05/17/2019 16:34	05/20/2019 15:11	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		ug/L	3.33	10	EPA 6020B	05/17/2019 16:34	05/20/2019 15:11	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		ug/L	5.56	10	EPA 6020B	05/17/2019 16:34	05/20/2019 15:11	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		ug/L	11.1	10	EPA 6020B	05/17/2019 16:34	05/20/2019 15:11	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		ug/L	11.1	10	EPA 6020B	05/17/2019 16:34	05/20/2019 15:11	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		ug/L	0.20	1	EPA 7473	05/16/2019 09:41	05/16/2019 11:11	SY
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

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	0.0002000	1	EPA 7473	05/21/2019 10:01	05/21/2019 10:35	SY
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: MW002 **York Sample ID:** 19E0591-32

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 10:00 am	05/13/2019

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:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 15:17	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS

Sample Information

Client Sample ID: MW002 **York Sample ID:** 19E0591-32

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 10:00 am	05/13/2019

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
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 15:17 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: MW002 **York Sample ID:** 19E0591-32

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 10:00 am	05/13/2019

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
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 15:17	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 15:17	SS
99-87-6	**p-Isopropyltoluene**	**5.51**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS

Sample Information

Client Sample ID: MW002 **York Sample ID:** 19E0591-32

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 10:00 am	05/13/2019

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
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 15:17	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 15:17	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*92.6 %*	*70-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.4 %*	*70-130*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*123 %*	*70-130*

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

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	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/17/2019 17:04	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/17/2019 17:04	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/17/2019 17:04	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR

Sample Information

Client Sample ID: MW002 **York Sample ID:** 19E0591-32

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 10:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:** EXT-EM

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
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
95-57-8	2-Chlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
95-48-7	2-Methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
88-74-4	2-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
99-09-2	3-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
106-47-8	4-Chloroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-01-6	4-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
98-86-2	Acetophenone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 NELAC-NY10854,NJDEP,PADEP	SR
62-53-3	Aniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 NELAC-NY10854,NJDEP,PADEP	SR
100-52-7	Benzaldehyde	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 NELAC-NY10854,NJDEP,PADEP	SR
92-87-5	Benzidine	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:04 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR

Sample Information

Client Sample ID: MW002 **York Sample ID:** 19E0591-32

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 10:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

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
65-85-0	Benzoic acid	ND		ug/L	27.8	55.6	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
100-51-6	Benzyl alcohol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.11	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
105-60-2	Caprolactam	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
86-74-8	Carbazole	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
132-64-9	Dibenzofuran	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.56	11.1	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
78-59-1	Isophorone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
108-95-2	Phenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR
110-86-1	Pyridine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:04	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*28.3 %*	*19.7-63.1*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*17.4 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*56.0 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*60.6 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*67.1 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*75.6 %*	*30.7-106*

Sample Information

Client Sample ID: MW002 **York Sample ID:** 19E0591-32

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 10:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:** EXT-EM

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	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 17:42	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 17:42	KH
120-12-7	**Anthracene**	**0.100**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 17:42	KH
1912-24-9	Atrazine	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 17:42	KH
56-55-3	**Benzo(a)anthracene**	**0.300**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 17:42	KH
50-32-8	**Benzo(a)pyrene**	**0.344**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 17:42	KH
205-99-2	**Benzo(b)fluoranthene**	**0.289**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 17:42	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.222**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 17:42	KH
207-08-9	**Benzo(k)fluoranthene**	**0.267**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 17:42	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 17:42	KH
218-01-9	**Chrysene**	**0.311**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 17:42	KH
53-70-3	**Dibenzo(a,h)anthracene**	**0.0889**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 17:42	KH
206-44-0	**Fluoranthene**	**0.611**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 17:42	KH
86-73-7	Fluorene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 17:42	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0222	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 17:42	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 17:42	KH
67-72-1	Hexachloroethane	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 17:42	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.200**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 17:42	KH
91-20-3	**Naphthalene**	**0.122**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 17:42	KH
98-95-3	Nitrobenzene	ND		ug/L	0.278	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 17:42	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 17:42	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.278	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 17:42	KH
85-01-8	**Phenanthrene**	**0.289**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 17:42	KH

Sample Information

Client Sample ID: MW002 **York Sample ID:** 19E0591-32

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 10:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

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
129-00-0	**Pyrene**	**0.744**		ug/L	0.0556	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 17:42	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Pesticides, 8081 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	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:16	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-55-9	4,4'-DDE	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:16	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-29-3	4,4'-DDT	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:16	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
309-00-2	Aldrin	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:16	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-84-6	alpha-BHC	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:16	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
5103-71-9	alpha-Chlordane	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:16	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-85-7	beta-BHC	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:16	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-86-8	delta-BHC	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:16	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
60-57-1	Dieldrin	ND		ug/L	0.00216	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:16	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
959-98-8	Endosulfan I	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:16	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
33213-65-9	Endosulfan II	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:16	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:16	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-20-8	Endrin	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:16	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7421-93-4	Endrin aldehyde	ND		ug/L	0.0108	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:16	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
53494-70-5	Endrin ketone	ND		ug/L	0.0108	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:16	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:16	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
5566-34-7	gamma-Chlordane	ND		ug/L	0.0108	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:16	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
76-44-8	Heptachlor	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:16	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:16	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: MW002 **York Sample ID:** 19E0591-32

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 10:00 am	05/13/2019

Pesticides, 8081 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
72-43-5	Methoxychlor	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 23:16	CM
8001-35-2	Toxaphene	ND		ug/L	0.108	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 23:16	CM
57-74-9	* Chlordane, total	ND		ug/L	0.216	1	EPA 8081B Certifications:	05/16/2019 10:56	05/17/2019 23:16	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*88.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*82.2 %*	*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	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 13:32	SR
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 13:32	SR
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 13:32	SR
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 13:32	SR
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 13:32	SR
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 13:32	SR
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 13:32	SR
1336-36-3	* Total PCBs	ND		ug/L	0.0541	1	EPA 8082A Certifications:	05/16/2019 10:56	05/20/2019 13:32	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*92.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*104 %*	*30-150*

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**	**899**		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:23	KML
7440-39-3	**Barium**	**83.2**		ug/L	27.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:23	KML

Sample Information

Client Sample ID: MW002 **York Sample ID:** 19E0591-32

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 10:00 am	05/13/2019

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
7440-70-2	**Calcium**	**172000**		ug/L	55.6	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		ug/L	5.56	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	Cobalt	ND		ug/L	4.44	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		ug/L	22.2	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**3940**		ug/L	278	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**16.6**		ug/L	5.56	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**265000**		ug/L	55.6	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**409**		ug/L	5.56	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	Nickel	ND		ug/L	11.1	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**95600**		ug/L	55.6	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		ug/L	5.56	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**3030000**		ug/L	5560	10	EPA 6010D	05/15/2019 13:45	05/20/2019 10:40	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	Vanadium	ND		ug/L	11.1	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**59.0**		ug/L	27.8	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:23	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Metals, Target Analyte, ICP Dissolved

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**	**0.0755**		mg/L	0.0556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**0.0685**		mg/L	0.0278	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**162**		mg/L	0.0556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: MW002 **York Sample ID:** 19E0591-32

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 10:00 am	05/13/2019

Metals, Target Analyte, ICP Dissolved

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
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:53	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:53	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-95-4	**Magnesium**	**248**		mg/L	0.0556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:53	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**0.393**		mg/L	0.00556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:53	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:53	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**88.4**		mg/L	0.0556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:53	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:53	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**3250**		mg/L	5.56	10	EPA 6010D	05/17/2019 16:32	05/20/2019 11:44	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:53	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**0.0302**		mg/L	0.0278	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:53	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

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**	**1.13**		ug/L	1.11	1	EPA 6020B	05/15/2019 13:47	05/16/2019 13:24	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	**Arsenic**	**1.32**		ug/L	1.11	1	EPA 6020B	05/15/2019 13:47	05/16/2019 13:24	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	05/15/2019 13:47	05/16/2019 13:24	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	05/15/2019 13:47	05/16/2019 13:24	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	**Selenium**	**84.5**		ug/L	1.11	1	EPA 6020B	05/15/2019 13:47	05/16/2019 13:24	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	05/15/2019 13:47	05/16/2019 13:24	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Metals, Target Analyte, ICPMS Dissolved

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	11.1	10	EPA 6020B	05/17/2019 16:34	05/20/2019 15:16	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **MW002** **York Sample ID:** **19E0591-32**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 10:00 am	05/13/2019

Metals, Target Analyte, ICPMS Dissolved

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
7440-38-2	Arsenic	ND		ug/L	11.1	10	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:16	BML
7440-41-7	Beryllium	ND		ug/L	3.33	10	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:16	BML
7440-43-9	Cadmium	ND		ug/L	5.56	10	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:16	BML
7782-49-2	**Selenium**	**58.9**		ug/L	11.1	10	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:16	BML
7440-28-0	Thallium	ND		ug/L	11.1	10	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:16	BML

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		ug/L	0.20	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 09:41	05/16/2019 11:22	SY

Mercury by 7473, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

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	0.0002000	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 10:01	05/21/2019 10:46	SY

Sample Information

Client Sample ID: **MW003** **York Sample ID:** **19E0591-33**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 11:00 am	05/13/2019

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	05/16/2019 07:30	05/16/2019 17:23	SS
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	05/16/2019 07:30	05/16/2019 17:23	SS
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	05/16/2019 07:30	05/16/2019 17:23	SS

Sample Information

Client Sample ID: MW003 **York Sample ID:** 19E0591-33

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 11:00 am	05/13/2019

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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 17:23	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS

Sample Information

Client Sample ID: MW003 **York Sample ID:** 19E0591-33

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 11:00 am	05/13/2019

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
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS

Sample Information

Client Sample ID: MW003 **York Sample ID:** 19E0591-33

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 11:00 am	05/13/2019

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:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 17:23	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 17:23	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS

Sample Information

Client Sample ID: MW003 **York Sample ID:** 19E0591-33

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 11:00 am	05/13/2019

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:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:23	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 17:23	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*100 %*	*70-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*103 %*	*70-130*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*70-130*

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	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/17/2019 17:51	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/17/2019 17:51	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/17/2019 17:51	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR

Sample Information

Client Sample ID: MW003 **York Sample ID:** 19E0591-33

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 11:00 am	05/13/2019

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
91-58-7	2-Chloronaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
95-57-8	2-Chlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
95-48-7	2-Methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
88-74-4	2-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
99-09-2	3-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
106-47-8	4-Chloroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-01-6	4-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
98-86-2	Acetophenone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 NELAC-NY10854,NJDEP,PADEP	SR
62-53-3	Aniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 NELAC-NY10854,NJDEP,PADEP	SR
100-52-7	Benzaldehyde	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 NELAC-NY10854,NJDEP,PADEP	SR
92-87-5	Benzidine	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
65-85-0	Benzoic acid	ND		ug/L	27.8	55.6	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 NELAC-NY10854,NJDEP,PADEP	SR
100-51-6	Benzyl alcohol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 NELAC-NY10854,NJDEP,PADEP	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 17:51 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR

Sample Information

Client Sample ID: MW003 **York Sample ID:** 19E0591-33

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 11:00 am	05/13/2019

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
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.11	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
105-60-2	Caprolactam	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
86-74-8	Carbazole	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
132-64-9	Dibenzofuran	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.56	11.1	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
78-59-1	Isophorone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
108-95-2	Phenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR
110-86-1	Pyridine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 17:51	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*26.7 %*	*19.7-63.1*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*15.3 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*54.3 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*56.9 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*66.4 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*75.1 %*	*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

Sample Information

Client Sample ID: MW003 **York Sample ID:** 19E0591-33

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 11:00 am	05/13/2019

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	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:13	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:13	KH
120-12-7	Anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:13	KH
1912-24-9	Atrazine	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 18:13	KH
56-55-3	**Benzo(a)anthracene**	**0.100**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:13	KH
50-32-8	**Benzo(a)pyrene**	**0.122**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:13	KH
205-99-2	**Benzo(b)fluoranthene**	**0.122**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:13	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.100**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:13	KH
207-08-9	**Benzo(k)fluoranthene**	**0.0889**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:13	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 18:13	KH
218-01-9	**Chrysene**	**0.0778**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:13	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:13	KH
206-44-0	**Fluoranthene**	**0.167**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:13	KH
86-73-7	Fluorene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:13	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0222	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 18:13	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 18:13	KH
67-72-1	Hexachloroethane	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 18:13	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.0778**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:13	KH
91-20-3	Naphthalene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:13	KH
98-95-3	Nitrobenzene	ND		ug/L	0.278	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 18:13	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 18:13	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.278	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 18:13	KH
85-01-8	**Phenanthrene**	**0.122**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:13	KH

Sample Information

Client Sample ID: MW003 **York Sample ID:** 19E0591-33

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 11:00 am	05/13/2019

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
129-00-0	**Pyrene**	**0.144**		ug/L	0.0556	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Pesticides, 8081 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	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-55-9	4,4'-DDE	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-29-3	4,4'-DDT	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
309-00-2	Aldrin	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-84-6	alpha-BHC	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
5103-71-9	alpha-Chlordane	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-85-7	beta-BHC	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-86-8	delta-BHC	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
60-57-1	Dieldrin	ND		ug/L	0.00216	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
959-98-8	Endosulfan I	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
33213-65-9	Endosulfan II	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-20-8	Endrin	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7421-93-4	Endrin aldehyde	ND		ug/L	0.0108	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
53494-70-5	Endrin ketone	ND		ug/L	0.0108	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
5566-34-7	gamma-Chlordane	ND		ug/L	0.0108	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
76-44-8	Heptachlor	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/17/2019 23:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: MW003 **York Sample ID:** 19E0591-33

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 11:00 am	05/13/2019

Pesticides, 8081 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
72-43-5	Methoxychlor	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 23:31	CM
8001-35-2	Toxaphene	ND		ug/L	0.108	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 23:31	CM
57-74-9	* Chlordane, total	ND		ug/L	0.216	1	EPA 8081B Certifications:	05/16/2019 10:56	05/17/2019 23:31	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*86.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*74.7 %*	*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	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 13:45	SR
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 13:45	SR
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 13:45	SR
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 13:45	SR
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 13:45	SR
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 13:45	SR
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 13:45	SR
1336-36-3	* Total PCBs	ND		ug/L	0.0541	1	EPA 8082A Certifications:	05/16/2019 10:56	05/20/2019 13:45	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*90.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*101 %*	*30-150*

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**	**536**		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:31	KML
7440-39-3	**Barium**	**39.5**		ug/L	27.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:31	KML

Sample Information

Client Sample ID: MW003 **York Sample ID:** 19E0591-33

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 11:00 am	05/13/2019

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
7440-70-2	**Calcium**	**80600**		ug/L	55.6	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:31	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		ug/L	5.56	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:31	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	Cobalt	ND		ug/L	4.44	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:31	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		ug/L	22.2	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:31	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**822**		ug/L	278	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:31	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		ug/L	5.56	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:31	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**94700**		ug/L	55.6	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:31	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**48.1**		ug/L	5.56	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:31	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	Nickel	ND		ug/L	11.1	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:31	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**33700**		ug/L	55.6	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:31	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		ug/L	5.56	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:31	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**905000**		ug/L	556	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:31	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	Vanadium	ND		ug/L	11.1	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:31	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**29.4**		ug/L	27.8	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:31	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Metals, Target Analyte, ICP Dissolved

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	ND		mg/L	0.0556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:56	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**0.0346**		mg/L	0.0278	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:56	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**77.5**		mg/L	0.0556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:56	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:56	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:56	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:56	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: MW003 **York Sample ID:** 19E0591-33

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 11:00 am	05/13/2019

Metals, Target Analyte, ICP Dissolved

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
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 10:56	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 10:56	KML
7439-95-4	**Magnesium**	**88.1**		mg/L	0.0556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 10:56	KML
7439-96-5	**Manganese**	**0.0202**		mg/L	0.00556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 10:56	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 10:56	KML
7440-09-7	**Potassium**	**31.2**		mg/L	0.0556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 10:56	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 10:56	KML
7440-23-5	**Sodium**	**847**		mg/L	0.556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 10:56	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 10:56	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 10:56	KML

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**	**1.38**		ug/L	1.11	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:39	BML
7440-38-2	**Arsenic**	**4.26**		ug/L	1.11	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:39	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:39	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:39	BML
7782-49-2	**Selenium**	**32.4**		ug/L	1.11	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:39	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:39	BML

Metals, Target Analyte, ICPMS Dissolved

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	11.1	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:21	BML

Sample Information

Client Sample ID: MW003 **York Sample ID:** 19E0591-33

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 11:00 am	05/13/2019

Metals, Target Analyte, ICPMS Dissolved

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
7440-38-2	Arsenic	ND		ug/L	11.1	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:21	BML
7440-41-7	Beryllium	ND		ug/L	3.33	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:21	BML
7440-43-9	Cadmium	ND		ug/L	5.56	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:21	BML
7782-49-2	Selenium	ND		ug/L	11.1	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:21	BML
7440-28-0	Thallium	ND		ug/L	11.1	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:21	BML

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		ug/L	0.20	1	EPA 7473 Certifications:	05/16/2019 09:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 11:57	SY

Mercury by 7473, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

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	0.0002000	1	EPA 7473 Certifications:	05/21/2019 10:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 11:22	SY

Sample Information

Client Sample ID: MW004 **York Sample ID:** 19E0591-34

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:15 pm	05/13/2019

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:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS

Sample Information

Client Sample ID: MW004 **York Sample ID:** 19E0591-34

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:15 pm	05/13/2019

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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 NELAC-NY10854,NELAC-NY12058,NJDEP	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 17:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: MW004 **York Sample ID:** 19E0591-34

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:15 pm	05/13/2019

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
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
67-64-1	**Acetone**	**1.80**	J	ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
75-15-0	**Carbon disulfide**	**0.450**	J	ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS

Sample Information

Client Sample ID: MW004 **York Sample ID:** 19E0591-34

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:15 pm	05/13/2019

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:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
98-82-8	**Isopropylbenzene**	**10.6**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
108-87-2	**Methylcyclohexane**	**0.260**	J	ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
104-51-8	**n-Butylbenzene**	**1.64**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
103-65-1	**n-Propylbenzene**	**16.4**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 17:54	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 17:54	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
135-98-8	**sec-Butylbenzene**	**5.96**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
98-06-6	**tert-Butylbenzene**	**1.91**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS

Sample Information

Client Sample ID: MW004 **York Sample ID:** 19E0591-34

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:15 pm	05/13/2019

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:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 17:54	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 17:54	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*70-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.6 %*	*70-130*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*114 %*	*70-130*

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

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	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/28/2019 16:25	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/28/2019 16:25	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/28/2019 16:25	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH

Sample Information

Client Sample ID: MW004 **York Sample ID:** 19E0591-34

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:15 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:** EXT-EM

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
91-58-7	2-Chloronaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
95-48-7	2-Methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
100-02-7	4-Nitrophenol	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
98-86-2	Acetophenone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
62-53-3	Aniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
100-52-7	Benzaldehyde	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
92-87-5	Benzidine	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
65-85-0	Benzoic acid	ND		ug/L	27.8	55.6	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH

Sample Information

Client Sample ID: MW004 **York Sample ID:** 19E0591-34

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:15 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

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
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.11	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
105-60-2	Caprolactam	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
86-74-8	Carbazole	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
132-64-9	Dibenzofuran	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.56	11.1	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
78-59-1	Isophorone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
108-95-2	**Phenol**	**4.72**	J	ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH
110-86-1	Pyridine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/28/2019 16:25	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*53.2 %*	*19.7-63.1*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*34.0 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*104 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*93.7 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*121 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*106 %*	*30.7-106*

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

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

Sample Information

Client Sample ID: MW004 **York Sample ID:** 19E0591-34

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:15 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

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	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:56	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:56	KH
120-12-7	**Anthracene**	**0.0889**	IS-01	ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:56	KH
1912-24-9	Atrazine	ND	IS-01	ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 22:56	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:56	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:56	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:56	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:56	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:56	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 22:56	KH
218-01-9	Chrysene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:56	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:56	KH
206-44-0	**Fluoranthene**	**0.0778**	IS-01	ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:56	KH
86-73-7	**Fluorene**	**0.0778**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:56	KH
118-74-1	Hexachlorobenzene	ND	IS-01	ug/L	0.0222	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 22:56	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 22:56	KH
67-72-1	Hexachloroethane	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 22:56	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:56	KH
91-20-3	**Naphthalene**	**0.811**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:56	KH
98-95-3	Nitrobenzene	ND		ug/L	0.278	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 22:56	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 22:56	KH
87-86-5	Pentachlorophenol	ND	IS-01	ug/L	0.278	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 22:56	KH
85-01-8	**Phenanthrene**	**0.300**	IS-01	ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:56	KH

Sample Information

Client Sample ID: MW004 **York Sample ID:** 19E0591-34

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:15 pm	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

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
129-00-0	**Pyrene**	**0.0778**		ug/L	0.0556	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 22:56	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Pesticides, 8081 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	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 13:10	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-55-9	4,4'-DDE	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 13:10	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-29-3	4,4'-DDT	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 13:10	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
309-00-2	Aldrin	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 13:10	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-84-6	alpha-BHC	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 13:10	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
5103-71-9	alpha-Chlordane	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 13:10	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-85-7	beta-BHC	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 13:10	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-86-8	delta-BHC	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 13:10	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
60-57-1	Dieldrin	ND		ug/L	0.00216	1	EPA 8081B	05/16/2019 10:56	05/20/2019 13:10	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
959-98-8	Endosulfan I	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 13:10	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
33213-65-9	Endosulfan II	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 13:10	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 13:10	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-20-8	Endrin	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 13:10	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7421-93-4	Endrin aldehyde	ND		ug/L	0.0108	1	EPA 8081B	05/16/2019 10:56	05/20/2019 13:10	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
53494-70-5	Endrin ketone	ND		ug/L	0.0108	1	EPA 8081B	05/16/2019 10:56	05/20/2019 13:10	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 13:10	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
5566-34-7	gamma-Chlordane	ND		ug/L	0.0108	1	EPA 8081B	05/16/2019 10:56	05/20/2019 13:10	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
76-44-8	Heptachlor	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 13:10	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00432	1	EPA 8081B	05/16/2019 10:56	05/20/2019 13:10	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: MW004 **York Sample ID:** 19E0591-34

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:15 pm	05/13/2019

Pesticides, 8081 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
72-43-5	Methoxychlor	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 13:10	CM
8001-35-2	Toxaphene	ND		ug/L	0.108	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 13:10	CM
57-74-9	* Chlordane, total	ND		ug/L	0.216	1	EPA 8081B Certifications:	05/16/2019 10:56	05/20/2019 13:10	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*48.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*47.5 %*	*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	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/23/2019 17:37	SR
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/23/2019 17:37	SR
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/23/2019 17:37	SR
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/23/2019 17:37	SR
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/23/2019 17:37	SR
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/23/2019 17:37	SR
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/23/2019 17:37	SR
1336-36-3	* Total PCBs	ND		ug/L	0.0541	1	EPA 8082A Certifications:	05/16/2019 10:56	05/23/2019 17:37	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*100 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*104 %*	*30-150*

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**	**17800**		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:34	KML
7440-39-3	**Barium**	**271**		ug/L	27.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:34	KML

Sample Information

Client Sample ID: MW004 **York Sample ID:** 19E0591-34

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:15 pm	05/13/2019

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
7440-70-2	**Calcium**	**202000**		ug/L	55.6	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**34.8**		ug/L	5.56	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	**Cobalt**	**17.3**		ug/L	4.44	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**398**		ug/L	22.2	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**20300**		ug/L	278	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**203**		ug/L	5.56	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**110000**		ug/L	55.6	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**610**		ug/L	5.56	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**29.5**		ug/L	11.1	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**80900**		ug/L	55.6	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		ug/L	5.56	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**1630000**		ug/L	5560	10	EPA 6010D	05/15/2019 13:45	05/20/2019 10:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**47.9**		ug/L	11.1	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**933**		ug/L	27.8	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:34	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Metals, Target Analyte, ICP Dissolved

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**	**0.0822**		mg/L	0.0556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**0.0937**		mg/L	0.0278	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**103**		mg/L	0.0556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	05/17/2019 16:32	05/20/2019 10:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: MW004 **York Sample ID:** 19E0591-34

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:15 pm	05/13/2019

Metals, Target Analyte, ICP Dissolved

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
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 10:59	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 10:59	KML
7439-95-4	**Magnesium**	**75.9**		mg/L	0.0556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 10:59	KML
7439-96-5	**Manganese**	**0.0308**		mg/L	0.00556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 10:59	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 10:59	KML
7440-09-7	**Potassium**	**70.6**		mg/L	0.0556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 10:59	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 10:59	KML
7440-23-5	**Sodium**	**1260**		mg/L	0.556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 10:59	KML
7440-62-2	**Vanadium**	**0.0202**		mg/L	0.0111	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 10:59	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 10:59	KML

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**	**1.25**		ug/L	1.11	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:44	BML
7440-38-2	**Arsenic**	**16.4**		ug/L	1.11	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:44	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:44	BML
7440-43-9	**Cadmium**	**2.31**		ug/L	0.556	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:44	BML
7782-49-2	**Selenium**	**56.4**		ug/L	1.11	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:44	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:44	BML

Metals, Target Analyte, ICPMS Dissolved

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	11.1	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:26	BML

Sample Information

Client Sample ID: **MW004** **York Sample ID:** **19E0591-34**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:15 pm	05/13/2019

Metals, Target Analyte, ICPMS Dissolved

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
7440-38-2	**Arsenic**	**20.3**		ug/L	11.1	10	EPA 6020B	05/17/2019 16:34	05/20/2019 15:26	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		ug/L	3.33	10	EPA 6020B	05/17/2019 16:34	05/20/2019 15:26	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	Cadmium	ND		ug/L	5.56	10	EPA 6020B	05/17/2019 16:34	05/20/2019 15:26	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	**Selenium**	**12.7**		ug/L	11.1	10	EPA 6020B	05/17/2019 16:34	05/20/2019 15:26	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		ug/L	11.1	10	EPA 6020B	05/17/2019 16:34	05/20/2019 15:26	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		ug/L	0.20	1	EPA 7473	05/16/2019 09:41	05/16/2019 12:08	SY
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7473, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

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	0.0002000	1	EPA 7473	05/21/2019 10:01	05/21/2019 11:33	SY
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **DUPE001** **York Sample ID:** **19E0591-35**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	0.0544	0.109	2	EPA 8270D	05/21/2019 08:26	05/23/2019 04:49	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.109	0.217	2	EPA 8270D	05/21/2019 08:26	05/23/2019 04:49	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D	05/21/2019 08:26	05/23/2019 04:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: DUPE001 **York Sample ID:** 19E0591-35

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.109	0.217	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.109	0.217	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
91-57-6	**2-Methylnaphthalene**	**0.109**		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.109	0.217	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.109	0.217	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.109	0.217	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH

Sample Information

Client Sample ID: DUPE001 **York Sample ID:** 19E0591-35

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.109	0.217	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.109	0.217	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
83-32-9	**Acenaphthene**	**0.108**	J	mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
208-96-8	**Acenaphthylene**	**0.162**		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
62-53-3	Aniline	ND		mg/kg dry	0.217	0.435	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
120-12-7	**Anthracene**	**0.304**		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
92-87-5	Benzidine	ND		mg/kg dry	0.217	0.435	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
56-55-3	**Benzo(a)anthracene**	**1.14**		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
50-32-8	**Benzo(a)pyrene**	**1.50**		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
205-99-2	**Benzo(b)fluoranthene**	**1.22**		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
191-24-2	**Benzo(g,h,i)perylene**	**1.00**		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
207-08-9	**Benzo(k)fluoranthene**	**1.11**		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH

Sample Information

Client Sample ID: DUPE001 **York Sample ID:** 19E0591-35

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

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		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.109	0.217	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
86-74-8	**Carbazole**	**0.246**		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
218-01-9	**Chrysene**	**1.27**		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
53-70-3	**Dibenzo(a,h)anthracene**	**0.269**		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
132-64-9	**Dibenzofuran**	**0.128**		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
206-44-0	**Fluoranthene**	**2.83**		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
86-73-7	**Fluorene**	**0.169**		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**1.18**		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
91-20-3	**Naphthalene**	**0.135**		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/23/2019 04:49	KH

Sample Information

Client Sample ID: DUPE001 **York Sample ID:** 19E0591-35

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
85-01-8	**Phenanthrene**	**1.99**		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
108-95-2	Phenol	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
129-00-0	**Pyrene**	**2.22**		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
110-86-1	Pyridine	ND		mg/kg dry	0.217	0.435	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*69.4 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*79.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*84.8 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*79.1 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*33.7 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*81.6 %*	*24-116*

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**	**9690**		mg/kg dry	6.53	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:44	KML
7440-36-0	Antimony	ND		mg/kg dry	3.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:44	KML
7440-38-2	**Arsenic**	**3.94**		mg/kg dry	1.96	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:44	KML
7440-39-3	**Barium**	**39.2**		mg/kg dry	3.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:44	KML
7440-41-7	**Beryllium**	**0.325**	B	mg/kg dry	0.065	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:44	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.392	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:44	KML
7440-70-2	**Calcium**	**6000**		mg/kg dry	6.53	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:44	KML
7440-47-3	**Chromium**	**12.7**		mg/kg dry	0.653	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:44	KML
7440-48-4	**Cobalt**	**7.92**		mg/kg dry	0.523	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:44	KML

Sample Information

Client Sample ID: DUPE001 **York Sample ID:** 19E0591-35

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:00 am	05/13/2019

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**	**18.8**		mg/kg dry	2.61	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:44	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**15600**		mg/kg dry	32.7	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:44	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**24.8**		mg/kg dry	0.653	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:44	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**3730**		mg/kg dry	6.53	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:44	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**254**		mg/kg dry	0.653	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:44	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**15.3**		mg/kg dry	1.31	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:44	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1060**		mg/kg dry	6.53	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:44	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	3.27	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:44	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.653	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:44	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**207**		mg/kg dry	65.3	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:44	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.27	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:44	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**16.8**		mg/kg dry	1.31	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:44	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**43.3**		mg/kg dry	3.27	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:44	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**0.142**		mg/kg dry	0.0392	1	EPA 7473	05/22/2019 14:45	05/22/2019 23:03	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,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**	**76.5**		%	0.100	1	SM 2540G	05/17/2019 18:10	05/18/2019 15:58	TJM
							Certifications: CTDOH			

Sample Information

Client Sample ID: DUPE002 **York Sample ID:** 19E0591-36

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

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	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,PADEP	05/22/2019 02:23	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,PADEP	05/22/2019 02:23	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,PADEP	05/22/2019 02:23	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR

Sample Information

Client Sample ID: DUPE002 **York Sample ID:** 19E0591-36

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
83-32-9	**Acenaphthene**	**0.108**		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 NELAC-NY10854,NJDEP,PADEP	SR
62-53-3	Aniline	ND		mg/kg dry	0.213	0.425	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 NELAC-NY10854,NJDEP,PADEP	SR
120-12-7	**Anthracene**	**0.515**		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 NELAC-NY10854,NJDEP,PADEP	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 NELAC-NY10854,NJDEP,PADEP	SR
92-87-5	Benzidine	ND		mg/kg dry	0.213	0.425	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,PADEP	SR
56-55-3	**Benzo(a)anthracene**	**1.08**		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
50-32-8	**Benzo(a)pyrene**	**1.28**		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
205-99-2	**Benzo(b)fluoranthene**	**0.921**		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
191-24-2	**Benzo(g,h,i)perylene**	**0.689**		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
207-08-9	**Benzo(k)fluoranthene**	**0.765**		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 NELAC-NY10854,NJDEP,PADEP	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 NELAC-NY10854,NJDEP,PADEP	SR

Sample Information

Client Sample ID: DUPE002 **York Sample ID:** 19E0591-36

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 NELAC-NY10854,NJDEP,PADEP	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
218-01-9	**Chrysene**	**0.948**		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
53-70-3	**Dibenzo(a,h)anthracene**	**0.214**		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
132-64-9	**Dibenzofuran**	**0.0815**	J	mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
206-44-0	**Fluoranthene**	**2.23**		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
86-73-7	**Fluorene**	**0.138**		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 NELAC-NY10854,NJDEP,PADEP	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.779**		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
91-20-3	**Naphthalene**	**0.0611**	J	mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26	05/22/2019 02:23 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR

Sample Information

Client Sample ID: DUPE002 **York Sample ID:** 19E0591-36

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
85-01-8	**Phenanthrene**	**1.39**		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
108-95-2	Phenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
129-00-0	**Pyrene**	**1.95**		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR
110-86-1	Pyridine	ND		mg/kg dry	0.213	0.425	2	EPA 8270D Certifications:	05/21/2019 08:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/22/2019 02:23	SR

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*39.6 %*		*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*37.0 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*73.5 %*		*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*73.0 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*147 %*	S-08	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*88.2 %*		*24-116*

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**	**5370**		mg/kg dry	6.39	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:46	KML
7440-36-0	Antimony	ND		mg/kg dry	3.20	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:46	KML
7440-38-2	**Arsenic**	**5.95**		mg/kg dry	1.92	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:46	KML
7440-39-3	**Barium**	**41.5**		mg/kg dry	3.20	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:46	KML
7440-41-7	**Beryllium**	**0.101**	B	mg/kg dry	0.064	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:46	KML
7440-43-9	**Cadmium**	**1.42**		mg/kg dry	0.383	1	EPA 6010D Certifications:	05/20/2019 14:50 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 20:46	KML

Sample Information

Client Sample ID: DUPE002 **York Sample ID:** 19E0591-36

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:00 am	05/13/2019

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
7440-70-2	**Calcium**	**16500**		mg/kg dry	6.39	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:46	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**8.29**		mg/kg dry	0.639	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:46	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	**Cobalt**	**4.98**		mg/kg dry	0.511	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:46	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**381**		mg/kg dry	2.56	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:46	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**10100**		mg/kg dry	32.0	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:46	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**135**		mg/kg dry	0.639	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:46	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**8910**		mg/kg dry	6.39	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:46	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**232**		mg/kg dry	0.639	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:46	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**10.3**		mg/kg dry	1.28	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:46	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**800**		mg/kg dry	6.39	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:46	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	3.20	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:46	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.639	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:46	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**273**		mg/kg dry	63.9	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:46	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.20	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:46	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**16.1**		mg/kg dry	1.28	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:46	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**645**		mg/kg dry	3.20	1	EPA 6010D	05/20/2019 14:50	05/20/2019 20:46	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

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**	**0.613**		mg/kg dry	0.0383	1	EPA 7473	05/22/2019 14:45	05/22/2019 23:13	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: DUPE002 **York Sample ID:** 19E0591-36

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:00 am	05/13/2019

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**	**78.2**		%	0.100	1	SM 2540G	05/17/2019 18:10	05/18/2019 15:58	TJM
							Certifications: CTDOH			

Sample Information

Client Sample ID: DUPE003 **York Sample ID:** 19E0591-37

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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	05/16/2019 07:30	05/16/2019 18:27	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 18:27	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 18:27	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 18:27	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 18:27	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 18:27	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 18:27	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 18:27	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 18:27	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 18:27	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 18:27	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 18:27	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 18:27	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 18:27	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 18:27	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: DUPE003 **York Sample ID:** 19E0591-37

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: DUPE003 **York Sample ID:** 19E0591-37

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 18:27 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: DUPE003 **York Sample ID:** 19E0591-37

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:27	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:27	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:27	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:27	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:27	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:27	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:27	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:27	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:27	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:27	SS
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:27	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:27	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 18:27	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*102 %*	*70-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*102 %*	*70-130*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*109 %*	*70-130*

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

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	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/17/2019 19:26	SR

Sample Information

Client Sample ID: DUPE003 **York Sample ID:** 19E0591-37

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:** EXT-EM

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
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/17/2019 19:26	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/17/2019 19:26	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
95-57-8	2-Chlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
95-48-7	2-Methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
88-74-4	2-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
99-09-2	3-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 19:26	SR

Sample Information

Client Sample ID: DUPE003 **York Sample ID:** 19E0591-37

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:** EXT-EM

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
106-47-8	4-Chloroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-01-6	4-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.41	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
98-86-2	Acetophenone	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 NELAC-NY10854,NJDEP,PADEP	SR
62-53-3	Aniline	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 NELAC-NY10854,NJDEP,PADEP	SR
100-52-7	Benzaldehyde	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 NELAC-NY10854,NJDEP,PADEP	SR
92-87-5	Benzidine	ND		ug/L	5.41	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
65-85-0	Benzoic acid	ND		ug/L	27.0	54.1	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 NELAC-NY10854,NJDEP,PADEP	SR
100-51-6	Benzyl alcohol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 NELAC-NY10854,NJDEP,PADEP	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.08	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
105-60-2	Caprolactam	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 NELAC-NY10854,NJDEP,PADEP	SR
86-74-8	Carbazole	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
132-64-9	Dibenzofuran	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.41	10.8	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
78-59-1	Isophorone	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 19:26 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR

Sample Information

Client Sample ID: DUPE003 **York Sample ID:** 19E0591-37

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

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
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 19:26	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 19:26	SR
108-95-2	Phenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 19:26	SR
110-86-1	Pyridine	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 19:26	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*30.0 %*	*19.7-63.1*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*17.0 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*56.4 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*63.2 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*70.0 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*79.4 %*	*30.7-106*

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

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	0.0541	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:44	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0541	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:44	KH
120-12-7	Anthracene	ND		ug/L	0.0541	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:44	KH
1912-24-9	Atrazine	ND		ug/L	0.541	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 18:44	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:44	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:44	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:44	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:44	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:44	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.541	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 18:44	KH
218-01-9	Chrysene	ND		ug/L	0.0541	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:44	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:44	KH

Sample Information

Client Sample ID: DUPE003 **York Sample ID:** 19E0591-37

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

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
206-44-0	Fluoranthene	ND		ug/L	0.0541	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:44	KH
86-73-7	Fluorene	ND		ug/L	0.0541	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:44	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0216	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 18:44	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.541	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 18:44	KH
67-72-1	Hexachloroethane	ND		ug/L	0.541	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 18:44	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:44	KH
91-20-3	Naphthalene	ND		ug/L	0.0541	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:44	KH
98-95-3	Nitrobenzene	ND		ug/L	0.270	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 18:44	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.541	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 18:44	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.270	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 18:44	KH
85-01-8	Phenanthrene	ND		ug/L	0.0541	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:44	KH
129-00-0	Pyrene	ND		ug/L	0.0541	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:44	KH

Pesticides, 8081 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	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 23:46	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 23:46	CM
50-29-3	4,4'-DDT	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 23:46	CM
309-00-2	Aldrin	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 23:46	CM
319-84-6	alpha-BHC	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 23:46	CM
5103-71-9	alpha-Chlordane	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 23:46	CM
319-85-7	beta-BHC	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 23:46	CM
319-86-8	delta-BHC	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 23:46	CM

Sample Information

Client Sample ID: DUPE003 **York Sample ID:** 19E0591-37

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

Pesticides, 8081 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
60-57-1	Dieldrin	ND		ug/L	0.00222	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 23:46	CM
959-98-8	Endosulfan I	ND		ug/L	0.00444	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 23:46	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00444	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 23:46	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00444	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 23:46	CM
72-20-8	Endrin	ND		ug/L	0.00444	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 23:46	CM
7421-93-4	Endrin aldehyde	ND		ug/L	0.0111	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 23:46	CM
53494-70-5	Endrin ketone	ND		ug/L	0.0111	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 23:46	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00444	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 23:46	CM
5566-34-7	gamma-Chlordane	ND		ug/L	0.0111	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 23:46	CM
76-44-8	Heptachlor	ND		ug/L	0.00444	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 23:46	CM
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00444	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 23:46	CM
72-43-5	Methoxychlor	ND		ug/L	0.00444	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 23:46	CM
8001-35-2	Toxaphene	ND		ug/L	0.111	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 23:46	CM
57-74-9	* Chlordane, total	ND		ug/L	0.222	1	EPA 8081B Certifications:	05/16/2019 10:56	05/17/2019 23:46	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*92.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*88.4 %*	*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	0.0556	1	EPA 8082A Certifications:	05/16/2019 10:56 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:12	SR
11104-28-2	Aroclor 1221	ND		ug/L	0.0556	1	EPA 8082A Certifications:	05/16/2019 10:56 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:12	SR
11141-16-5	Aroclor 1232	ND		ug/L	0.0556	1	EPA 8082A Certifications:	05/16/2019 10:56 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:12	SR
53469-21-9	Aroclor 1242	ND		ug/L	0.0556	1	EPA 8082A Certifications:	05/16/2019 10:56 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:12	SR

Sample Information

Client Sample ID: DUPE003 **York Sample ID:** 19E0591-37

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
12672-29-6	Aroclor 1248	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:12	SR
11097-69-1	Aroclor 1254	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:12	SR
11096-82-5	Aroclor 1260	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:12	SR
1336-36-3	* Total PCBs	ND		ug/L	0.0556	1	EPA 8082A Certifications:	05/16/2019 10:56	05/20/2019 14:12	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*85.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*106 %*	*30-150*

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**	**492**		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:36	KML
7440-39-3	**Barium**	**40.0**		ug/L	27.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:36	KML
7440-70-2	**Calcium**	**81200**		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:36	KML
7440-47-3	Chromium	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:36	KML
7440-48-4	Cobalt	ND		ug/L	4.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:36	KML
7440-50-8	Copper	ND		ug/L	22.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:36	KML
7439-89-6	**Iron**	**773**		ug/L	278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:36	KML
7439-92-1	Lead	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:36	KML
7439-95-4	**Magnesium**	**95700**		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:36	KML
7439-96-5	**Manganese**	**49.6**		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:36	KML
7440-02-0	Nickel	ND		ug/L	11.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:36	KML
7440-09-7	**Potassium**	**34200**		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:36	KML
7440-22-4	Silver	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:36	KML
7440-23-5	**Sodium**	**933000**		ug/L	556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:36	KML

Sample Information

Client Sample ID: DUPE003 **York Sample ID:** 19E0591-37

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
7440-62-2	Vanadium	ND		ug/L	11.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:36	KML
7440-66-6	**Zinc**	**27.9**		ug/L	27.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:36	KML

Metals, Target Analyte, ICP Dissolved

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**	**0.0728**		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:01	KML
7440-39-3	**Barium**	**0.0350**		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:01	KML
7440-70-2	**Calcium**	**77.9**		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:01	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:01	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:01	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:01	KML
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:01	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:01	KML
7439-95-4	**Magnesium**	**88.2**		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:01	KML
7439-96-5	**Manganese**	**0.0204**		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:01	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:01	KML
7440-09-7	**Potassium**	**31.3**		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:01	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:01	KML
7440-23-5	**Sodium**	**857**		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:01	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:01	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:01	KML

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: DUPE003 **York Sample ID:** 19E0591-37

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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**	**1.34**		ug/L	1.11	1	EPA 6020B	05/15/2019 13:47	05/16/2019 13:49	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	**Arsenic**	**3.97**		ug/L	1.11	1	EPA 6020B	05/15/2019 13:47	05/16/2019 13:49	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	05/15/2019 13:47	05/16/2019 13:49	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	05/15/2019 13:47	05/16/2019 13:49	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	**Selenium**	**27.5**		ug/L	1.11	1	EPA 6020B	05/15/2019 13:47	05/16/2019 13:49	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	05/15/2019 13:47	05/16/2019 13:49	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Metals, Target Analyte, ICPMS Dissolved

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	11.1	10	EPA 6020B	05/17/2019 16:34	05/20/2019 15:31	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	Arsenic	ND		ug/L	11.1	10	EPA 6020B	05/17/2019 16:34	05/20/2019 15:31	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		ug/L	3.33	10	EPA 6020B	05/17/2019 16:34	05/20/2019 15:31	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		ug/L	5.56	10	EPA 6020B	05/17/2019 16:34	05/20/2019 15:31	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		ug/L	11.1	10	EPA 6020B	05/17/2019 16:34	05/20/2019 15:31	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		ug/L	11.1	10	EPA 6020B	05/17/2019 16:34	05/20/2019 15:31	BML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		ug/L	0.20	1	EPA 7473	05/16/2019 09:41	05/16/2019 13:19	SY
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

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	0.0002000	1	EPA 7473	05/21/2019 10:01	05/21/2019 11:44	SY
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: **SB009 (8-10) E** **York Sample ID:** **19E0591-38**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 11:35 am	05/13/2019

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	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	**1,2,4-Trimethylbenzene**	**160**		mg/kg dry	2.8	5.6	1000	EPA 8260C	05/17/2019 07:30	05/17/2019 14:13	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	**1,3,5-Trimethylbenzene**	**63**		mg/kg dry	2.8	5.6	1000	EPA 8260C	05/17/2019 07:30	05/17/2019 14:13	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
123-91-1	1,4-Dioxane	ND		mg/kg dry	14	28	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		

Sample Information

Client Sample ID: SB009 (8-10) E

York Sample ID: 19E0591-38

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 11:35 am	05/13/2019

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
78-93-3	2-Butanone	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
591-78-6	2-Hexanone	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-64-1	Acetone	ND		mg/kg dry	1.4	2.8	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-02-8	Acrolein	ND		mg/kg dry	1.4	2.8	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
71-43-2	Benzene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-86-1	Bromobenzene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-25-2	Bromoform	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-83-9	Bromomethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-66-3	Chloroform	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-87-3	Chloromethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
110-82-7	Cyclohexane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: SB009 (8-10) E

York Sample ID: 19E0591-38

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 11:35 am	05/13/2019

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
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-95-3	Dibromomethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
100-41-4	**Ethyl Benzene**	**1.1**	J	mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
98-82-8	**Isopropylbenzene**	**13**		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-20-9	Methyl acetate	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-87-2	**Methylcyclohexane**	**4.2**		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-09-2	Methylene chloride	ND		mg/kg dry	1.4	2.8	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
104-51-8	**n-Butylbenzene**	**17**		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
103-65-1	**n-Propylbenzene**	**33**		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-47-6	**o-Xylene**	**0.81**	J	mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	1.4	2.8	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
99-87-6	**p-Isopropyltoluene**	**19**		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
135-98-8	**sec-Butylbenzene**	**24**		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
100-42-5	Styrene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.70	7.0	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
98-06-6	**tert-Butylbenzene**	**2.0**		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-88-3	Toluene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications:	05/17/2019 07:30	05/17/2019 13:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: SB009 (8-10) E **York Sample ID:** 19E0591-38

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 11:35 am	05/13/2019

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
79-01-6	Trichloroethylene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-05-4	Vinyl acetate	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.70	1.4	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		mg/kg dry	2.1	4.2	250	EPA 8260C	05/17/2019 07:30	05/17/2019 13:48	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*92.0 %*		*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.4 %*		*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*135 %*	S-09	*76-130*

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**	**90.7**		%	0.100	1	SM 2540G	05/17/2019 18:10	05/18/2019 15:58	TJM
							Certifications: CTDOH			

Sample Information

Client Sample ID: SB009 (8-10) N **York Sample ID:** 19E0591-39

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 11:30 am	05/13/2019

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	0.0033	0.0065	1	EPA 8260C	05/16/2019 07:30	05/16/2019 19:44	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C	05/16/2019 07:30	05/16/2019 19:44	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C	05/16/2019 07:30	05/16/2019 19:44	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: SB009 (8-10) N

York Sample ID: 19E0591-39

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 11:30 am	05/13/2019

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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	RDS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 NELAC-NY10854,NELAC-NY12058,NJDEP	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.065	0.13	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 NELAC-NY10854,NELAC-NY12058,NJDEP	RDS
78-93-3	**2-Butanone**	**0.0088**	CCV-E	mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
591-78-6	2-Hexanone	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS

Sample Information

Client Sample ID: SB009 (8-10) N **York Sample ID:** 19E0591-39

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 11:30 am	05/13/2019

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
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
67-64-1	**Acetone**	**0.037**	CCV-E	mg/kg dry	0.0065	0.013	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
107-02-8	Acrolein	ND		mg/kg dry	0.0065	0.013	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
71-43-2	Benzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-86-1	Bromobenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-25-2	Bromoform	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
74-83-9	Bromomethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-00-3	Chloroethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
67-66-3	Chloroform	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
74-87-3	Chloromethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
110-82-7	Cyclohexane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
74-95-3	Dibromomethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS

Sample Information

Client Sample ID: SB009 (8-10) N

York Sample ID: 19E0591-39

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 11:30 am	05/13/2019

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	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
79-20-9	Methyl acetate	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-09-2	Methylene chloride	ND		mg/kg dry	0.0065	0.013	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
95-47-6	o-Xylene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	RDS
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0065	0.013	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	RDS
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
100-42-5	Styrene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0033	0.033	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-88-3	Toluene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-05-4	Vinyl acetate	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:44 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS

Sample Information

Client Sample ID: SB009 (8-10) N **York Sample ID:** 19E0591-39

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 11:30 am	05/13/2019

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	0.0033	0.0065	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0098	0.020	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 19:44	RDS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*102 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.4 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*101 %*	*76-130*

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**	**78.9**		%	0.100	1	SM 2540G Certifications: CTDOH	05/17/2019 18:10	05/18/2019 15:58	TJM

Sample Information

Client Sample ID: SB009 (8-10) W **York Sample ID:** 19E0591-40

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:30 pm	05/13/2019

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	0.0034	0.0068	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 20:11	RDS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS

Sample Information

Client Sample ID: **SB009 (8-10) W** **York Sample ID:** **19E0591-40**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:30 pm	05/13/2019

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
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 NELAC-NY10854,NELAC-NY12058,NJDEP	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.068	0.14	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 NELAC-NY10854,NELAC-NY12058,NJDEP	RDS
78-93-3	2-Butanone	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
591-78-6	2-Hexanone	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
67-64-1	**Acetone**	**0.0074**	CCV-E, J	mg/kg dry	0.0068	0.014	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS

Sample Information

Client Sample ID: SB009 (8-10) W

York Sample ID: 19E0591-40

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:30 pm	05/13/2019

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
107-02-8	Acrolein	ND		mg/kg dry	0.0068	0.014	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-43-2	Benzene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-86-1	Bromobenzene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-25-2	Bromoform	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-83-9	Bromomethane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
110-82-7	Cyclohexane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-95-3	Dibromomethane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:11	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: SB009 (8-10) W

York Sample ID: 19E0591-40

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:30 pm	05/13/2019

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
79-20-9	Methyl acetate	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:11	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:11	RDS
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:11	RDS
75-09-2	**Methylene chloride**	**0.010**	J	mg/kg dry	0.0068	0.014	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:11	RDS
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:11	RDS
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:11	RDS
95-47-6	o-Xylene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 20:11	RDS
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0068	0.014	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 20:11	RDS
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:11	RDS
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:11	RDS
100-42-5	Styrene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:11	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0034	0.034	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:11	RDS
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:11	RDS
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:11	RDS
108-88-3	Toluene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:11	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:11	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:11	RDS
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:11	RDS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:11	RDS
108-05-4	Vinyl acetate	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:11	RDS
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:11	RDS
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.010	0.020	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 20:11	RDS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*99.1 %*	*77-125*

Sample Information

Client Sample ID: SB009 (8-10) W **York Sample ID:** 19E0591-40

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Soil	May 10, 2019 12:30 pm	05/13/2019

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
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*			*85-120*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*			*76-130*						

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**	**84.1**		%	0.100	1	SM 2540G Certifications: CTDOH	05/17/2019 18:10	05/18/2019 15:58	TJM

Sample Information

Client Sample ID: FB001 **York Sample ID:** 19E0591-41

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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	05/16/2019 07:30	05/16/2019 18:58	SS
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	05/16/2019 07:30	05/16/2019 18:58	SS
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	05/16/2019 07:30	05/16/2019 18:58	SS
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	05/16/2019 07:30	05/16/2019 18:58	SS
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	05/16/2019 07:30	05/16/2019 18:58	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:58	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:58	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 18:58	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:58	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:58	SS

Sample Information

Client Sample ID: FB001 **York Sample ID:** 19E0591-41

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS

Sample Information

Client Sample ID: FB001 **York Sample ID:** 19E0591-41

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS

Sample Information

Client Sample ID: FB001 **York Sample ID:** 19E0591-41

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 18:58	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 18:58	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 18:58	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 18:58	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*70-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*102 %*	*70-130*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*109 %*	*70-130*

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **FB001** **York Sample ID:** **19E0591-41**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/17/2019 20:13	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/17/2019 20:13	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/17/2019 20:13	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
95-57-8	2-Chlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
95-48-7	2-Methylphenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
88-74-4	2-Nitroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
99-09-2	3-Nitroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR

Sample Information

Client Sample ID: FB001 **York Sample ID:** 19E0591-41

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
106-47-8	4-Chloroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-01-6	4-Nitroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.71	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
98-86-2	Acetophenone	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 NELAC-NY10854,NJDEP,PADEP	SR
62-53-3	Aniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 NELAC-NY10854,NJDEP,PADEP	SR
100-52-7	Benzaldehyde	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 NELAC-NY10854,NJDEP,PADEP	SR
92-87-5	Benzidine	ND		ug/L	5.71	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
65-85-0	Benzoic acid	ND		ug/L	28.6	57.1	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 NELAC-NY10854,NJDEP,PADEP	SR
100-51-6	Benzyl alcohol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 NELAC-NY10854,NJDEP,PADEP	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.14	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
105-60-2	Caprolactam	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 NELAC-NY10854,NJDEP,PADEP	SR
86-74-8	Carbazole	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
132-64-9	Dibenzofuran	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 20:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR

Sample Information

Client Sample ID: FB001 **York Sample ID:** 19E0591-41

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.71	11.4	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
78-59-1	Isophorone	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
108-95-2	Phenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR
110-86-1	Pyridine	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 20:13	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*31.1 %*	*19.7-63.1*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*18.9 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*54.2 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*58.5 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*62.5 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*73.0 %*	*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
83-32-9	Acenaphthene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 19:16	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 19:16	KH
120-12-7	Anthracene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 19:16	KH
1912-24-9	Atrazine	ND		ug/L	0.571	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP	05/29/2019 19:16	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 19:16	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 19:16	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 19:16	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 19:16	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 19:16	KH

Sample Information

Client Sample ID: FB001 **York Sample ID:** 19E0591-41

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 19:16	KH
218-01-9	Chrysene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:16	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:16	KH
206-44-0	Fluoranthene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:16	KH
86-73-7	**Fluorene**	**0.320**		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:16	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0229	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 19:16	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 19:16	KH
67-72-1	Hexachloroethane	ND		ug/L	0.571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 19:16	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:16	KH
91-20-3	Naphthalene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:16	KH
98-95-3	Nitrobenzene	ND		ug/L	0.286	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 19:16	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 19:16	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.286	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 19:16	KH
85-01-8	Phenanthrene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:16	KH
129-00-0	Pyrene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:16	KH

Pesticides, 8081 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	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/18/2019 00:01	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/18/2019 00:01	CM
50-29-3	4,4'-DDT	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/18/2019 00:01	CM
309-00-2	Aldrin	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/18/2019 00:01	CM
319-84-6	alpha-BHC	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/18/2019 00:01	CM

Sample Information

Client Sample ID: FB001 **York Sample ID:** 19E0591-41

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

Pesticides, 8081 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
5103-71-9	alpha-Chlordane	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/18/2019 00:01	CM
319-85-7	beta-BHC	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/18/2019 00:01	CM
319-86-8	delta-BHC	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/18/2019 00:01	CM
60-57-1	Dieldrin	ND		ug/L	0.00222	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/18/2019 00:01	CM
959-98-8	Endosulfan I	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/18/2019 00:01	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/18/2019 00:01	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/18/2019 00:01	CM
72-20-8	Endrin	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/18/2019 00:01	CM
7421-93-4	Endrin aldehyde	ND		ug/L	0.0111	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/18/2019 00:01	CM
53494-70-5	Endrin ketone	ND		ug/L	0.0111	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/18/2019 00:01	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/18/2019 00:01	CM
5566-34-7	gamma-Chlordane	ND		ug/L	0.0111	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/18/2019 00:01	CM
76-44-8	Heptachlor	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/18/2019 00:01	CM
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/18/2019 00:01	CM
72-43-5	Methoxychlor	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/18/2019 00:01	CM
8001-35-2	Toxaphene	ND		ug/L	0.111	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/18/2019 00:01	CM
57-74-9	* Chlordane, total	ND		ug/L	0.222	1	EPA 8081B Certifications:	05/16/2019 10:56	05/18/2019 00:01	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*106 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*85.8 %*	*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	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:26	SR

Sample Information

Client Sample ID: FB001 **York Sample ID:** 19E0591-41

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
11104-28-2	Aroclor 1221	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:26	SR
11141-16-5	Aroclor 1232	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:26	SR
53469-21-9	Aroclor 1242	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:26	SR
12672-29-6	Aroclor 1248	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:26	SR
11097-69-1	Aroclor 1254	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:26	SR
11096-82-5	Aroclor 1260	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:26	SR
1336-36-3	* Total PCBs	ND		ug/L	0.0556	1	EPA 8082A Certifications:	05/16/2019 10:56	05/20/2019 14:26	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*75.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*86.5 %*	*30-150*

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	ND		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:44	KML
7440-39-3	Barium	ND		ug/L	27.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:44	KML
7440-70-2	Calcium	ND		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:44	KML
7440-47-3	Chromium	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:44	KML
7440-48-4	Cobalt	ND		ug/L	4.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:44	KML
7440-50-8	Copper	ND		ug/L	22.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:44	KML
7439-89-6	**Iron**	**329**		ug/L	278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:44	KML
7439-92-1	Lead	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:44	KML
7439-95-4	Magnesium	ND		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:44	KML
7439-96-5	Manganese	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:44	KML
7440-02-0	Nickel	ND		ug/L	11.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:44	KML

Sample Information

Client Sample ID: **FB001** **York Sample ID:** **19E0591-41**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
7440-09-7	**Potassium**	**123**		ug/L	55.6	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:44	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		ug/L	5.56	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:44	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	Sodium	ND		ug/L	556	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:44	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	Vanadium	ND		ug/L	11.1	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:44	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	Zinc	ND		ug/L	27.8	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:44	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Metals, Target Analyte, ICP Dissolved

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	ND		mg/L	0.0556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:04	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:04	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	Calcium	ND		mg/L	0.0556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:04	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:04	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:04	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:04	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:04	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:04	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	Magnesium	ND		mg/L	0.0556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:04	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:04	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:04	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**0.216**		mg/L	0.0556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:04	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:04	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	Sodium	ND		mg/L	0.556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:04	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:04	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:04	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: FB001 **York Sample ID:** 19E0591-41

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:04	BML
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:04	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:04	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:04	BML
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:04	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:04	BML

Metals, Target Analyte, ICPMS Dissolved

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	11.1	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:36	BML
7440-38-2	Arsenic	ND		ug/L	11.1	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:36	BML
7440-41-7	Beryllium	ND		ug/L	3.33	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:36	BML
7440-43-9	Cadmium	ND		ug/L	5.56	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:36	BML
7782-49-2	Selenium	ND		ug/L	11.1	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:36	BML
7440-28-0	Thallium	ND		ug/L	11.1	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:36	BML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		ug/L	0.20	1	EPA 7473 Certifications:	05/16/2019 09:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:30	SY

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

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	0.0002000	1	EPA 7473 Certifications:	05/21/2019 10:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 12:17	SY

Sample Information

Client Sample ID: **EB001** **York Sample ID:** **19E0591-42**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 NELAC-NY10854,NELAC-NY12058,NJDEP	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: EB001 **York Sample ID:** 19E0591-42

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: EB001 **York Sample ID:** 19E0591-42

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 19:31	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: EB001 **York Sample ID:** 19E0591-42

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 19:31	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 19:31	SS
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 19:31	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 19:31	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 19:31	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*70-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*102 %*	*70-130*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*111 %*	*70-130*

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	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/17/2019 21:01	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/17/2019 21:01	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/17/2019 21:01	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR

Sample Information

Client Sample ID: EB001 **York Sample ID:** 19E0591-42

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
95-57-8	2-Chlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
95-48-7	2-Methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
88-74-4	2-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
99-09-2	3-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
106-47-8	4-Chloroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-01-6	4-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
98-86-2	Acetophenone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 NELAC-NY10854,NJDEP,PADEP	SR
62-53-3	Aniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 NELAC-NY10854,NJDEP,PADEP	SR
100-52-7	Benzaldehyde	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 NELAC-NY10854,NJDEP,PADEP	SR
92-87-5	Benzidine	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 21:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR

Sample Information

Client Sample ID: EB001 **York Sample ID:** 19E0591-42

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
65-85-0	Benzoic acid	ND		ug/L	27.8	55.6	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
100-51-6	Benzyl alcohol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.11	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
105-60-2	Caprolactam	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
86-74-8	Carbazole	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
132-64-9	Dibenzofuran	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.56	11.1	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
78-59-1	Isophorone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
108-95-2	Phenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR
110-86-1	Pyridine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:01	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*35.3 %*	*19.7-63.1*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*21.3 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*65.6 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*70.9 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*79.1 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*89.8 %*	*30.7-106*

Sample Information

Client Sample ID: EB001 **York Sample ID:** 19E0591-42

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:47	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:47	KH
120-12-7	Anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:47	KH
1912-24-9	Atrazine	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 19:47	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:47	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:47	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:47	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:47	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:47	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 19:47	KH
218-01-9	Chrysene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:47	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:47	KH
206-44-0	Fluoranthene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:47	KH
86-73-7	**Fluorene**	**0.389**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:47	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0222	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 19:47	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 19:47	KH
67-72-1	Hexachloroethane	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 19:47	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:47	KH
91-20-3	Naphthalene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:47	KH
98-95-3	Nitrobenzene	ND		ug/L	0.278	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 19:47	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 19:47	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.278	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 19:47	KH
85-01-8	Phenanthrene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:47	KH
129-00-0	**Pyrene**	**0.0667**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:47	KH

Sample Information

Client Sample ID: **EB001** **York Sample ID:** **19E0591-42**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

Pesticides, 8081 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	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 09:34	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 09:34	CM
50-29-3	4,4'-DDT	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 09:34	CM
309-00-2	Aldrin	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 09:34	CM
319-84-6	alpha-BHC	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 09:34	CM
5103-71-9	alpha-Chlordane	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 09:34	CM
319-85-7	beta-BHC	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 09:34	CM
319-86-8	delta-BHC	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 09:34	CM
60-57-1	Dieldrin	ND		ug/L	0.00216	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 09:34	CM
959-98-8	Endosulfan I	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 09:34	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 09:34	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 09:34	CM
72-20-8	Endrin	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 09:34	CM
7421-93-4	Endrin aldehyde	ND		ug/L	0.0108	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 09:34	CM
53494-70-5	Endrin ketone	ND		ug/L	0.0108	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 09:34	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 09:34	CM
5566-34-7	gamma-Chlordane	ND		ug/L	0.0108	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 09:34	CM
76-44-8	Heptachlor	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 09:34	CM
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 09:34	CM
72-43-5	Methoxychlor	ND		ug/L	0.00432	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 09:34	CM
8001-35-2	Toxaphene	ND		ug/L	0.108	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 09:34	CM
57-74-9	* Chlordane, total	ND		ug/L	0.216	1	EPA 8081B Certifications:	05/16/2019 10:56	05/19/2019 09:34	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*109 %*	*30-150*

Sample Information

Client Sample ID: EB001 **York Sample ID:** 19E0591-42

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

Pesticides, 8081 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
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*79.4 %*			*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	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:39	SR
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:39	SR
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:39	SR
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:39	SR
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:39	SR
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:39	SR
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:39	SR
1336-36-3	* Total PCBs	ND		ug/L	0.0541	1	EPA 8082A Certifications:	05/16/2019 10:56	05/20/2019 14:39	SR

CAS No.	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*99.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*118 %*	*30-150*

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	ND		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:46	KML
7440-39-3	Barium	ND		ug/L	27.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:46	KML
7440-70-2	Calcium	ND		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:46	KML
7440-47-3	Chromium	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:46	KML
7440-48-4	Cobalt	ND		ug/L	4.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:46	KML
7440-50-8	Copper	ND		ug/L	22.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:46	KML
7439-89-6	Iron	ND		ug/L	278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:46	KML

Sample Information

Client Sample ID: **EB001** **York Sample ID:** **19E0591-42**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
7439-92-1	Lead	ND		ug/L	5.56	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:46	KML
7439-95-4	Magnesium	ND		ug/L	55.6	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:46	KML
7439-96-5	Manganese	ND		ug/L	5.56	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:46	KML
7440-02-0	Nickel	ND		ug/L	11.1	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:46	KML
7440-09-7	**Potassium**	**104**		ug/L	55.6	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:46	KML
7440-22-4	Silver	ND		ug/L	5.56	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:46	KML
7440-23-5	Sodium	ND		ug/L	556	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:46	KML
7440-62-2	Vanadium	ND		ug/L	11.1	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:46	KML
7440-66-6	Zinc	ND		ug/L	27.8	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:46	KML

Metals, Target Analyte, ICP Dissolved

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	ND		mg/L	0.0556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:12	KML
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:12	KML
7440-70-2	Calcium	ND		mg/L	0.0556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:12	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:12	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:12	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:12	KML
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:12	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:12	KML
7439-95-4	Magnesium	ND		mg/L	0.0556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:12	KML
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:12	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:12	KML
7440-09-7	**Potassium**	**0.0719**		mg/L	0.0556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:12	KML

Sample Information

Client Sample ID: EB001 **York Sample ID:** 19E0591-42

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

Metals, Target Analyte, ICP Dissolved

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
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:12	KML
7440-23-5	Sodium	ND		mg/L	0.556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:12	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:12	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:12	KML

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:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:09	BML
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:09	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:09	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:09	BML
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:09	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:09	BML

Metals, Target Analyte, ICPMS Dissolved

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	11.1	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:40	BML
7440-38-2	Arsenic	ND		ug/L	11.1	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:40	BML
7440-41-7	Beryllium	ND		ug/L	3.33	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:40	BML
7440-43-9	Cadmium	ND		ug/L	5.56	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:40	BML
7782-49-2	Selenium	ND		ug/L	11.1	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:40	BML
7440-28-0	Thallium	ND		ug/L	11.1	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:40	BML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **EB001** **York Sample ID:** **19E0591-42**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		ug/L	0.20	1	EPA 7473	05/16/2019 09:41	05/16/2019 13:41	SY
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

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	0.0002000	1	EPA 7473	05/21/2019 10:01	05/21/2019 12:28	SY
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: **FB002** **York Sample ID:** **19E0591-43**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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	05/16/2019 07:30	05/16/2019 20:03	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 20:03	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 20:03	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 20:03	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 20:03	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 20:03	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 20:03	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 20:03	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 20:03	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 20:03	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 20:03	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 20:03	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: FB002 **York Sample ID:** 19E0591-43

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: **FB002** **York Sample ID:** **19E0591-43**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-87-3	**Chloromethane**	**0.440**	J	ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:03 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: FB002 **York Sample ID:** 19E0591-43

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 20:03	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 20:03	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:03	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:03	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:03	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:03	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:03	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:03	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:03	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:03	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:03	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:03	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:03	SS
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:03	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:03	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 20:03	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*70-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*70-130*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*70-130*

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	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR

Sample Information

Client Sample ID: FB002 **York Sample ID:** 19E0591-43

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
95-57-8	2-Chlorophenol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
95-48-7	2-Methylphenol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
88-74-4	2-Nitroaniline	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
88-75-5	2-Nitrophenol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
99-09-2	3-Nitroaniline	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR

Sample Information

Client Sample ID: FB002 **York Sample ID:** 19E0591-43

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
106-47-8	4-Chloroaniline	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
100-01-6	4-Nitroaniline	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
100-02-7	4-Nitrophenol	ND		ug/L	7.14	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
98-86-2	Acetophenone	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
62-53-3	Aniline	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
100-52-7	Benzaldehyde	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
92-87-5	Benzidine	ND		ug/L	7.14	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
65-85-0	Benzoic acid	ND		ug/L	35.7	71.4	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
100-51-6	Benzyl alcohol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.43	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
105-60-2	Caprolactam	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
86-74-8	Carbazole	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
132-64-9	Dibenzofuran	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
84-66-2	Diethyl phthalate	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
131-11-3	Dimethyl phthalate	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR

Sample Information

Client Sample ID: FB002 **York Sample ID:** 19E0591-43

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
117-84-0	Di-n-octyl phthalate	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	7.14	14.3	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
78-59-1	Isophorone	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
108-95-2	Phenol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR
110-86-1	Pyridine	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 21:48	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*40.8 %*	*19.7-63.1*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*25.6 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*72.0 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*73.7 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*80.1 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*89.1 %*	*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
83-32-9	Acenaphthene	ND		ug/L	0.0714	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 20:19	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0714	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 20:19	KH
120-12-7	Anthracene	ND		ug/L	0.0714	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 20:19	KH
1912-24-9	Atrazine	ND		ug/L	0.714	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP	05/29/2019 20:19	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0714	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 20:19	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0714	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 20:19	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0714	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 20:19	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0714	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 20:19	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0714	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 20:19	KH

Sample Information

Client Sample ID: FB002 **York Sample ID:** 19E0591-43

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.714	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 20:19	KH
218-01-9	Chrysene	ND		ug/L	0.0714	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:19	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0714	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:19	KH
206-44-0	Fluoranthene	ND		ug/L	0.0714	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:19	KH
86-73-7	**Fluorene**	**0.514**		ug/L	0.0714	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:19	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0286	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 20:19	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.714	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 20:19	KH
67-72-1	Hexachloroethane	ND		ug/L	0.714	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 20:19	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0714	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:19	KH
91-20-3	Naphthalene	ND		ug/L	0.0714	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:19	KH
98-95-3	Nitrobenzene	ND		ug/L	0.357	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 20:19	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.714	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 20:19	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.357	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 20:19	KH
85-01-8	Phenanthrene	ND		ug/L	0.0714	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:19	KH
129-00-0	Pyrene	ND		ug/L	0.0714	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:19	KH

Pesticides, 8081 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	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:50	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:50	CM
50-29-3	4,4'-DDT	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:50	CM
309-00-2	Aldrin	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:50	CM
319-84-6	alpha-BHC	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:50	CM

Sample Information

Client Sample ID: FB002 **York Sample ID:** 19E0591-43

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

Pesticides, 8081 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
5103-71-9	alpha-Chlordane	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:50	CM
319-85-7	beta-BHC	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:50	CM
319-86-8	delta-BHC	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:50	CM
60-57-1	Dieldrin	ND		ug/L	0.00222	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:50	CM
959-98-8	Endosulfan I	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:50	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:50	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:50	CM
72-20-8	Endrin	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:50	CM
7421-93-4	Endrin aldehyde	ND		ug/L	0.0111	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:50	CM
53494-70-5	Endrin ketone	ND		ug/L	0.0111	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:50	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:50	CM
5566-34-7	gamma-Chlordane	ND		ug/L	0.0111	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:50	CM
76-44-8	Heptachlor	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:50	CM
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:50	CM
72-43-5	Methoxychlor	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:50	CM
8001-35-2	Toxaphene	ND		ug/L	0.111	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:50	CM
57-74-9	* Chlordane, total	ND		ug/L	0.222	1	EPA 8081B Certifications:	05/16/2019 10:56	05/19/2019 09:50	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*107 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*75.3 %*	*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	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:53	SR

Sample Information

Client Sample ID: FB002 **York Sample ID:** 19E0591-43

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
11104-28-2	Aroclor 1221	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:53	SR
11141-16-5	Aroclor 1232	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:53	SR
53469-21-9	Aroclor 1242	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:53	SR
12672-29-6	Aroclor 1248	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:53	SR
11097-69-1	Aroclor 1254	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:53	SR
11096-82-5	Aroclor 1260	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:53	SR
1336-36-3	* Total PCBs	ND		ug/L	0.0556	1	EPA 8082A Certifications:	05/16/2019 10:56	05/20/2019 14:53	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*78.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*91.5 %*	*30-150*

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	ND		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:49	KML
7440-39-3	Barium	ND		ug/L	27.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:49	KML
7440-70-2	Calcium	ND		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:49	KML
7440-47-3	Chromium	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:49	KML
7440-48-4	Cobalt	ND		ug/L	4.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:49	KML
7440-50-8	Copper	ND		ug/L	22.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:49	KML
7439-89-6	Iron	ND		ug/L	278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:49	KML
7439-92-1	Lead	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:49	KML
7439-95-4	Magnesium	ND		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:49	KML
7439-96-5	Manganese	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:49	KML
7440-02-0	Nickel	ND		ug/L	11.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:49	KML

Sample Information

Client Sample ID: FB002 **York Sample ID:** 19E0591-43

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
7440-09-7	Potassium	ND		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:49	KML
7440-22-4	Silver	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:49	KML
7440-23-5	Sodium	ND		ug/L	556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:49	KML
7440-62-2	Vanadium	ND		ug/L	11.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:49	KML
7440-66-6	Zinc	ND		ug/L	27.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:49	KML

Metals, Target Analyte, ICP Dissolved

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	ND		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:14	KML
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:14	KML
7440-70-2	Calcium	ND		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:14	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:14	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:14	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:14	KML
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:14	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:14	KML
7439-95-4	Magnesium	ND		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:14	KML
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:14	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:14	KML
7440-09-7	Potassium	ND		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:14	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:14	KML
7440-23-5	Sodium	ND		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:14	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:14	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:14	KML

Sample Information

Client Sample ID: FB002 **York Sample ID:** 19E0591-43

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:14	BML
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:14	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:14	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:14	BML
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:14	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:14	BML

Metals, Target Analyte, ICPMS Dissolved

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	11.1	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:45	BML
7440-38-2	Arsenic	ND		ug/L	11.1	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:45	BML
7440-41-7	Beryllium	ND		ug/L	3.33	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:45	BML
7440-43-9	Cadmium	ND		ug/L	5.56	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:45	BML
7782-49-2	Selenium	ND		ug/L	11.1	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:45	BML
7440-28-0	Thallium	ND		ug/L	11.1	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 15:45	BML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		ug/L	0.20	1	EPA 7473 Certifications:	05/16/2019 09:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:52	SY

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

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	0.0002000	1	EPA 7473 Certifications:	05/21/2019 10:01 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 12:38	SY

Sample Information

Client Sample ID: EB002 **York Sample ID:** 19E0591-44

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 NELAC-NY10854,NELAC-NY12058,NJDEP	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: **EB002** **York Sample ID:** **19E0591-44**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-87-3	**Chloromethane**	**0.280**	J	ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 20:35 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: EB002 **York Sample ID:** 19E0591-44

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 20:35	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 20:35	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS

Sample Information

Client Sample ID: EB002 **York Sample ID:** 19E0591-44

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 20:35	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 20:35	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*70-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*70-130*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*111 %*	*70-130*

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	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/17/2019 22:37	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/17/2019 22:37	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/17/2019 22:37	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR

Sample Information

Client Sample ID: EB002 **York Sample ID:** 19E0591-44

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
95-57-8	2-Chlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
95-48-7	2-Methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
88-74-4	2-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
99-09-2	3-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
106-47-8	4-Chloroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-01-6	4-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
98-86-2	Acetophenone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 NELAC-NY10854,NJDEP,PADEP	SR
62-53-3	Aniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 NELAC-NY10854,NJDEP,PADEP	SR
100-52-7	Benzaldehyde	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 NELAC-NY10854,NJDEP,PADEP	SR
92-87-5	Benzidine	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 22:37 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR

Sample Information

Client Sample ID: EB002 **York Sample ID:** 19E0591-44

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
65-85-0	Benzoic acid	ND		ug/L	27.8	55.6	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
100-51-6	Benzyl alcohol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.11	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
105-60-2	Caprolactam	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
86-74-8	Carbazole	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
132-64-9	Dibenzofuran	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.56	11.1	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
78-59-1	Isophorone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
108-95-2	Phenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR
110-86-1	Pyridine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 22:37	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*35.0 %*	*19.7-63.1*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*19.6 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*62.2 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*68.0 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*72.3 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*84.2 %*	*30.7-106*

Sample Information

Client Sample ID: EB002 **York Sample ID:** 19E0591-44

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:50	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:50	KH
120-12-7	Anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:50	KH
1912-24-9	Atrazine	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 20:50	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:50	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:50	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:50	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:50	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:50	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 20:50	KH
218-01-9	Chrysene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:50	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:50	KH
206-44-0	Fluoranthene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:50	KH
86-73-7	Fluorene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:50	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0222	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 20:50	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 20:50	KH
67-72-1	Hexachloroethane	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 20:50	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:50	KH
91-20-3	Naphthalene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:50	KH
98-95-3	Nitrobenzene	ND		ug/L	0.278	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 20:50	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 20:50	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.278	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 20:50	KH
85-01-8	Phenanthrene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:50	KH
129-00-0	**Pyrene**	**0.0667**		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:50	KH

Sample Information

Client Sample ID: EB002 **York Sample ID:** 19E0591-44

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

Pesticides, 8081 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	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:05	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:05	CM
50-29-3	4,4'-DDT	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:05	CM
309-00-2	Aldrin	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:05	CM
319-84-6	alpha-BHC	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:05	CM
5103-71-9	alpha-Chlordane	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:05	CM
319-85-7	beta-BHC	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:05	CM
319-86-8	delta-BHC	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:05	CM
60-57-1	Dieldrin	ND		ug/L	0.00222	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:05	CM
959-98-8	Endosulfan I	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:05	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:05	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:05	CM
72-20-8	Endrin	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:05	CM
7421-93-4	Endrin aldehyde	ND		ug/L	0.0111	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:05	CM
53494-70-5	Endrin ketone	ND		ug/L	0.0111	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:05	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:05	CM
5566-34-7	gamma-Chlordane	ND		ug/L	0.0111	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:05	CM
76-44-8	Heptachlor	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:05	CM
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:05	CM
72-43-5	Methoxychlor	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:05	CM
8001-35-2	Toxaphene	ND		ug/L	0.111	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:05	CM
57-74-9	* Chlordane, total	ND		ug/L	0.222	1	EPA 8081B Certifications:	05/16/2019 10:56	05/19/2019 10:05	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*121 %*	*30-150*

Sample Information

Client Sample ID: EB002 **York Sample ID:** 19E0591-44

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

Pesticides, 8081 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
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*90.9 %*		*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	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 15:06	SR
11104-28-2	Aroclor 1221	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 15:06	SR
11141-16-5	Aroclor 1232	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 15:06	SR
53469-21-9	Aroclor 1242	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 15:06	SR
12672-29-6	Aroclor 1248	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 15:06	SR
11097-69-1	Aroclor 1254	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 15:06	SR
11096-82-5	Aroclor 1260	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 15:06	SR
1336-36-3	* Total PCBs	ND		ug/L	0.0556	1	EPA 8082A Certifications:	05/16/2019 10:56	05/20/2019 15:06	SR

CAS No.	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*96.0 %*	*30-150*

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	ND		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:51	KML
7440-39-3	Barium	ND		ug/L	27.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:51	KML
7440-70-2	Calcium	ND		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:51	KML
7440-47-3	Chromium	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:51	KML
7440-48-4	Cobalt	ND		ug/L	4.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:51	KML
7440-50-8	Copper	ND		ug/L	22.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:51	KML
7439-89-6	Iron	ND		ug/L	278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:51	KML

Sample Information

Client Sample ID: EB002 **York Sample ID:** 19E0591-44

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
7439-92-1	Lead	ND		ug/L	5.56	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:51	KML
7439-95-4	Magnesium	ND		ug/L	55.6	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:51	KML
7439-96-5	Manganese	ND		ug/L	5.56	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:51	KML
7440-02-0	Nickel	ND		ug/L	11.1	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:51	KML
7440-09-7	**Potassium**	**59.7**		ug/L	55.6	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:51	KML
7440-22-4	Silver	ND		ug/L	5.56	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:51	KML
7440-23-5	Sodium	ND		ug/L	556	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:51	KML
7440-62-2	Vanadium	ND		ug/L	11.1	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:51	KML
7440-66-6	Zinc	ND		ug/L	27.8	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:51	KML

Metals, Target Analyte, ICP Dissolved

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	ND		mg/L	0.0556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:17	KML
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:17	KML
7440-70-2	Calcium	ND		mg/L	0.0556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:17	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:17	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:17	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:17	KML
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:17	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:17	KML
7439-95-4	Magnesium	ND		mg/L	0.0556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:17	KML
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:17	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:17	KML
7440-09-7	**Potassium**	**0.104**		mg/L	0.0556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:17	KML

Sample Information

Client Sample ID: EB002 **York Sample ID:** 19E0591-44

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

Metals, Target Analyte, ICP Dissolved

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
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:17	KML
7440-23-5	Sodium	ND		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:17	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:17	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:17	KML

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	05/15/2019 13:47	05/16/2019 14:19	BML
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 14:19	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 14:19	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 14:19	BML
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 14:19	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 14:19	BML

Metals, Target Analyte, ICPMS Dissolved

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	11.1	10	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:50	BML
7440-38-2	Arsenic	ND		ug/L	11.1	10	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:50	BML
7440-41-7	Beryllium	ND		ug/L	3.33	10	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:50	BML
7440-43-9	Cadmium	ND		ug/L	5.56	10	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:50	BML
7782-49-2	Selenium	ND		ug/L	11.1	10	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:50	BML
7440-28-0	Thallium	ND		ug/L	11.1	10	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:50	BML

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: EB002 **York Sample ID:** 19E0591-44

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		ug/L	0.20	1	EPA 7473	05/16/2019 09:41	05/16/2019 14:03	SY
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

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	0.0002000	1	EPA 7473	05/21/2019 10:01	05/21/2019 12:49	SY
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: FB003 **York Sample ID:** 19E0591-45

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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	05/16/2019 07:30	05/16/2019 21:06	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 21:06	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 21:06	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 21:06	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 21:06	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 21:06	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 21:06	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 21:06	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 21:06	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 21:06	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 21:06	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	05/16/2019 07:30	05/16/2019 21:06	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: FB003 **York Sample ID:** 19E0591-45

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: FB003 **York Sample ID:** 19E0591-45

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-87-3	**Chloromethane**	**0.400**	J	ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:06 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: FB003 **York Sample ID:** 19E0591-45

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 21:06	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 21:06	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:06	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:06	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:06	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:06	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:06	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:06	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:06	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:06	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:06	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:06	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:06	SS
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:06	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:06	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 21:06	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*109 %*	*70-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*70-130*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*70-130*

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	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/17/2019 23:24	SR

Sample Information

Client Sample ID: FB003 **York Sample ID:** 19E0591-45

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
95-57-8	2-Chlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
95-48-7	2-Methylphenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
88-74-4	2-Nitroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
99-09-2	3-Nitroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR

Sample Information

Client Sample ID: FB003 **York Sample ID:** 19E0591-45

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
106-47-8	4-Chloroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-01-6	4-Nitroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.71	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
98-86-2	Acetophenone	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 NELAC-NY10854,NJDEP,PADEP	SR
62-53-3	Aniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 NELAC-NY10854,NJDEP,PADEP	SR
100-52-7	Benzaldehyde	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 NELAC-NY10854,NJDEP,PADEP	SR
92-87-5	Benzidine	ND		ug/L	5.71	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
65-85-0	Benzoic acid	ND		ug/L	28.6	57.1	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 NELAC-NY10854,NJDEP,PADEP	SR
100-51-6	Benzyl alcohol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 NELAC-NY10854,NJDEP,PADEP	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.14	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
105-60-2	Caprolactam	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 NELAC-NY10854,NJDEP,PADEP	SR
86-74-8	Carbazole	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
132-64-9	Dibenzofuran	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/17/2019 23:24 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR

Sample Information

Client Sample ID: FB003 **York Sample ID:** 19E0591-45

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 23:24	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.71	11.4	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 23:24	SR
78-59-1	Isophorone	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 23:24	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 23:24	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 23:24	SR
108-95-2	Phenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 23:24	SR
110-86-1	Pyridine	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 23:24	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*26.2 %*	*19.7-63.1*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*15.6 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*49.0 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*53.2 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*54.3 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*70.6 %*	*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
83-32-9	Acenaphthene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 21:22	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 21:22	KH
120-12-7	Anthracene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 21:22	KH
1912-24-9	Atrazine	ND		ug/L	0.571	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP	05/29/2019 21:22	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 21:22	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 21:22	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 21:22	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 21:22	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/29/2019 21:22	KH

Sample Information

Client Sample ID: FB003 **York Sample ID:** 19E0591-45

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.857**		ug/L	0.571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 21:22	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
218-01-9	Chrysene	ND		ug/L	0.0571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 21:22	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 21:22	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
206-44-0	Fluoranthene	ND		ug/L	0.0571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 21:22	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
86-73-7	Fluorene	ND		ug/L	0.0571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 21:22	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
118-74-1	Hexachlorobenzene	ND		ug/L	0.0229	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 21:22	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 21:22	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
67-72-1	Hexachloroethane	ND		ug/L	0.571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 21:22	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 21:22	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-20-3	**Naphthalene**	**0.0800**		ug/L	0.0571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 21:22	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-95-3	Nitrobenzene	ND		ug/L	0.286	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 21:22	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 21:22	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
87-86-5	Pentachlorophenol	ND		ug/L	0.286	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 21:22	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
85-01-8	Phenanthrene	ND		ug/L	0.0571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 21:22	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	Pyrene	ND		ug/L	0.0571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 21:22	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Pesticides, 8081 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	0.00421	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-55-9	4,4'-DDE	ND		ug/L	0.00421	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-29-3	4,4'-DDT	ND		ug/L	0.00421	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
309-00-2	Aldrin	ND		ug/L	0.00421	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-84-6	alpha-BHC	ND		ug/L	0.00421	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: FB003 **York Sample ID:** 19E0591-45

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

Pesticides, 8081 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
5103-71-9	alpha-Chlordane	ND		ug/L	0.00421	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 10:20	CM
319-85-7	beta-BHC	ND		ug/L	0.00421	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 10:20	CM
319-86-8	delta-BHC	ND		ug/L	0.00421	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 10:20	CM
60-57-1	Dieldrin	ND		ug/L	0.00211	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 10:20	CM
959-98-8	Endosulfan I	ND		ug/L	0.00421	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 10:20	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00421	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 10:20	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00421	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 10:20	CM
72-20-8	Endrin	ND		ug/L	0.00421	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 10:20	CM
7421-93-4	Endrin aldehyde	ND		ug/L	0.0105	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 10:20	CM
53494-70-5	Endrin ketone	ND		ug/L	0.0105	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 10:20	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00421	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 10:20	CM
5566-34-7	gamma-Chlordane	ND		ug/L	0.0105	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 10:20	CM
76-44-8	Heptachlor	ND		ug/L	0.00421	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 10:20	CM
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00421	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 10:20	CM
72-43-5	Methoxychlor	ND		ug/L	0.00421	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 10:20	CM
8001-35-2	Toxaphene	ND		ug/L	0.105	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 10:20	CM
57-74-9	* Chlordane, total	ND		ug/L	0.211	1	EPA 8081B Certifications:	05/16/2019 10:56	05/19/2019 10:20	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*102 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*86.4 %*	*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	0.0526	1	EPA 8082A Certifications:	05/16/2019 10:56 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 15:20	SR

Sample Information

Client Sample ID: FB003 **York Sample ID:** 19E0591-45

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
11104-28-2	Aroclor 1221	ND		ug/L	0.0526	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 15:20	SR
11141-16-5	Aroclor 1232	ND		ug/L	0.0526	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 15:20	SR
53469-21-9	Aroclor 1242	ND		ug/L	0.0526	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 15:20	SR
12672-29-6	Aroclor 1248	ND		ug/L	0.0526	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 15:20	SR
11097-69-1	Aroclor 1254	ND		ug/L	0.0526	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 15:20	SR
11096-82-5	Aroclor 1260	ND		ug/L	0.0526	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 15:20	SR
1336-36-3	* Total PCBs	ND		ug/L	0.0526	1	EPA 8082A Certifications:	05/16/2019 10:56	05/20/2019 15:20	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*89.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*106 %*	*30-150*

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	ND		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:54	KML
7440-39-3	Barium	ND		ug/L	27.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:54	KML
7440-70-2	Calcium	ND		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:54	KML
7440-47-3	Chromium	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:54	KML
7440-48-4	Cobalt	ND		ug/L	4.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:54	KML
7440-50-8	Copper	ND		ug/L	22.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:54	KML
7439-89-6	Iron	ND		ug/L	278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:54	KML
7439-92-1	Lead	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:54	KML
7439-95-4	Magnesium	ND		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:54	KML
7439-96-5	Manganese	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:54	KML
7440-02-0	Nickel	ND		ug/L	11.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:54	KML

Sample Information

Client Sample ID: **FB003** **York Sample ID:** **19E0591-45**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
7440-09-7	**Potassium**	**100**		ug/L	55.6	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:54	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		ug/L	5.56	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:54	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	Sodium	ND		ug/L	556	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:54	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	Vanadium	ND		ug/L	11.1	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:54	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	Zinc	ND		ug/L	27.8	1	EPA 6010D	05/15/2019 13:45	05/16/2019 13:54	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Metals, Target Analyte, ICP Dissolved

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	ND		mg/L	0.0556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	Calcium	ND		mg/L	0.0556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	Magnesium	ND		mg/L	0.0556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**0.0786**		mg/L	0.0556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	Sodium	ND		mg/L	0.556	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	05/17/2019 16:32	05/20/2019 11:19	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: FB003 **York Sample ID:** 19E0591-45

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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	05/15/2019 13:47	05/16/2019 14:23	BML
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 14:23	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 14:23	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 14:23	BML
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 14:23	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 14:23	BML

Metals, Target Analyte, ICPMS Dissolved

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	11.1	10	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:55	BML
7440-38-2	Arsenic	ND		ug/L	11.1	10	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:55	BML
7440-41-7	Beryllium	ND		ug/L	3.33	10	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:55	BML
7440-43-9	Cadmium	ND		ug/L	5.56	10	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:55	BML
7782-49-2	Selenium	ND		ug/L	11.1	10	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:55	BML
7440-28-0	Thallium	ND		ug/L	11.1	10	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:55	BML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		ug/L	0.20	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 09:41	05/16/2019 14:13	SY

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

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	0.0002000	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 10:01	05/21/2019 13:00	SY

Sample Information

Client Sample ID: EB003 **York Sample ID:** 19E0591-46

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 21:38	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS

Sample Information

Client Sample ID: EB003 **York Sample ID:** 19E0591-46

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 21:38 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: EB003 **York Sample ID:** 19E0591-46

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 21:38	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 21:38	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS

Sample Information

Client Sample ID: EB003 **York Sample ID:** 19E0591-46

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 21:38	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 21:38	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*70-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*70-130*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*70-130*

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	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/18/2019 00:12	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/18/2019 00:12	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,PADEP	05/18/2019 00:12	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR

Sample Information

Client Sample ID: EB003 **York Sample ID:** 19E0591-46

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
95-57-8	2-Chlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
95-48-7	2-Methylphenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
88-74-4	2-Nitroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
99-09-2	3-Nitroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
106-47-8	4-Chloroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-01-6	4-Nitroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.71	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
98-86-2	Acetophenone	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 NELAC-NY10854,NJDEP,PADEP	SR
62-53-3	Aniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 NELAC-NY10854,NJDEP,PADEP	SR
100-52-7	Benzaldehyde	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 NELAC-NY10854,NJDEP,PADEP	SR
92-87-5	Benzidine	ND		ug/L	5.71	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13	05/18/2019 00:12 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR

Sample Information

Client Sample ID: EB003 **York Sample ID:** 19E0591-46

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
65-85-0	Benzoic acid	ND		ug/L	28.6	57.1	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
100-51-6	Benzyl alcohol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.14	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
105-60-2	Caprolactam	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
86-74-8	Carbazole	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
132-64-9	Dibenzofuran	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.71	11.4	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
78-59-1	Isophorone	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
108-95-2	Phenol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR
110-86-1	Pyridine	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications:	05/16/2019 15:13 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/18/2019 00:12	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*34.1 %*	*19.7-63.1*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*19.4 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*61.1 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*65.4 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*71.1 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*82.7 %*	*30.7-106*

Sample Information

Client Sample ID: EB003 **York Sample ID:** 19E0591-46

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 21:53	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 21:53	KH
120-12-7	Anthracene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 21:53	KH
1912-24-9	Atrazine	ND		ug/L	0.571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 21:53	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 21:53	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 21:53	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 21:53	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 21:53	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 21:53	KH
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.800**		ug/L	0.571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 21:53	KH
218-01-9	Chrysene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 21:53	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 21:53	KH
206-44-0	Fluoranthene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 21:53	KH
86-73-7	**Fluorene**	**0.389**		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 21:53	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0229	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 21:53	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 21:53	KH
67-72-1	Hexachloroethane	ND		ug/L	0.571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 21:53	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 21:53	KH
91-20-3	**Naphthalene**	**0.126**		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 21:53	KH
98-95-3	Nitrobenzene	ND		ug/L	0.286	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 21:53	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 21:53	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.286	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 21:53	KH
85-01-8	Phenanthrene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 21:53	KH

Sample Information

Client Sample ID: EB003 **York Sample ID:** 19E0591-46

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
129-00-0	**Pyrene**	**0.0686**		ug/L	0.0571	1	EPA 8270D SIM	05/16/2019 15:13	05/29/2019 21:53	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Pesticides, 8081 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	0.00444	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:35	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-55-9	4,4'-DDE	ND		ug/L	0.00444	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:35	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-29-3	4,4'-DDT	ND		ug/L	0.00444	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:35	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
309-00-2	Aldrin	ND		ug/L	0.00444	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:35	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-84-6	alpha-BHC	ND		ug/L	0.00444	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:35	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
5103-71-9	alpha-Chlordane	ND		ug/L	0.00444	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:35	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-85-7	beta-BHC	ND		ug/L	0.00444	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:35	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-86-8	delta-BHC	ND		ug/L	0.00444	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:35	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
60-57-1	Dieldrin	ND		ug/L	0.00222	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:35	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
959-98-8	Endosulfan I	ND		ug/L	0.00444	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:35	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
33213-65-9	Endosulfan II	ND		ug/L	0.00444	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:35	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00444	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:35	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-20-8	Endrin	ND		ug/L	0.00444	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:35	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7421-93-4	Endrin aldehyde	ND		ug/L	0.0111	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:35	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
53494-70-5	Endrin ketone	ND		ug/L	0.0111	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:35	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00444	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:35	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
5566-34-7	gamma-Chlordane	ND		ug/L	0.0111	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:35	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
76-44-8	Heptachlor	ND		ug/L	0.00444	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:35	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00444	1	EPA 8081B	05/16/2019 10:56	05/19/2019 10:35	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: EB003 **York Sample ID:** 19E0591-46

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

Pesticides, 8081 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
72-43-5	Methoxychlor	ND		ug/L	0.00444	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 10:35	CM
8001-35-2	Toxaphene	ND		ug/L	0.111	1	EPA 8081B Certifications:	05/16/2019 10:56 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/19/2019 10:35	CM
57-74-9	* Chlordane, total	ND		ug/L	0.222	1	EPA 8081B Certifications:	05/16/2019 10:56	05/19/2019 10:35	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*111 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*94.8 %*	*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	0.0556	1	EPA 8082A Certifications:	05/16/2019 10:56 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 15:34	SR
11104-28-2	Aroclor 1221	ND		ug/L	0.0556	1	EPA 8082A Certifications:	05/16/2019 10:56 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 15:34	SR
11141-16-5	Aroclor 1232	ND		ug/L	0.0556	1	EPA 8082A Certifications:	05/16/2019 10:56 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 15:34	SR
53469-21-9	Aroclor 1242	ND		ug/L	0.0556	1	EPA 8082A Certifications:	05/16/2019 10:56 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 15:34	SR
12672-29-6	Aroclor 1248	ND		ug/L	0.0556	1	EPA 8082A Certifications:	05/16/2019 10:56 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 15:34	SR
11097-69-1	Aroclor 1254	ND		ug/L	0.0556	1	EPA 8082A Certifications:	05/16/2019 10:56 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 15:34	SR
11096-82-5	Aroclor 1260	ND		ug/L	0.0556	1	EPA 8082A Certifications:	05/16/2019 10:56 NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 15:34	SR
1336-36-3	* Total PCBs	ND		ug/L	0.0556	1	EPA 8082A Certifications:	05/16/2019 10:56	05/20/2019 15:34	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*88.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*97.0 %*	*30-150*

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	ND		ug/L	55.6	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:56	KML
7440-39-3	Barium	ND		ug/L	27.8	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:56	KML

Sample Information

Client Sample ID: EB003 **York Sample ID:** 19E0591-46

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
7440-70-2	Calcium	ND		ug/L	55.6	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:56	KML
7440-47-3	Chromium	ND		ug/L	5.56	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:56	KML
7440-48-4	Cobalt	ND		ug/L	4.44	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:56	KML
7440-50-8	Copper	ND		ug/L	22.2	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:56	KML
7439-89-6	Iron	ND		ug/L	278	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:56	KML
7439-92-1	Lead	ND		ug/L	5.56	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:56	KML
7439-95-4	Magnesium	ND		ug/L	55.6	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:56	KML
7439-96-5	Manganese	ND		ug/L	5.56	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:56	KML
7440-02-0	Nickel	ND		ug/L	11.1	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:56	KML
7440-09-7	Potassium	ND		ug/L	55.6	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:56	KML
7440-22-4	Silver	ND		ug/L	5.56	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:56	KML
7440-23-5	Sodium	ND		ug/L	556	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:56	KML
7440-62-2	Vanadium	ND		ug/L	11.1	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:56	KML
7440-66-6	Zinc	ND		ug/L	27.8	1	EPA 6010D Certifications:	05/15/2019 13:45 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 13:56	KML

Metals, Target Analyte, ICP Dissolved

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	ND		mg/L	0.0556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:22	KML
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:22	KML
7440-70-2	Calcium	ND		mg/L	0.0556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:22	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:22	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:22	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:22	KML
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:22	KML

Sample Information

Client Sample ID: **EB003** **York Sample ID:** **19E0591-46**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

Metals, Target Analyte, ICP Dissolved

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
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:22	KML
7439-95-4	Magnesium	ND		mg/L	0.0556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:22	KML
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:22	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:22	KML
7440-09-7	**Potassium**	**0.0872**		mg/L	0.0556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:22	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:22	KML
7440-23-5	Sodium	ND		mg/L	0.556	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:22	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:22	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications:	05/17/2019 16:32 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 11:22	KML

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:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:28	BML
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:28	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:28	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:28	BML
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:28	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications:	05/15/2019 13:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 14:28	BML

Metals, Target Analyte, ICPMS Dissolved

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	11.1	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 16:10	BML
7440-38-2	Arsenic	ND		ug/L	11.1	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 16:10	BML
7440-41-7	Beryllium	ND		ug/L	3.33	10	EPA 6020B Certifications:	05/17/2019 16:34 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 16:10	BML

Sample Information

Client Sample ID: EB003 **York Sample ID:** 19E0591-46

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

Metals, Target Analyte, ICPMS Dissolved

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
7440-43-9	Cadmium	ND		ug/L	5.56	10	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 16:10	BML
7782-49-2	Selenium	ND		ug/L	11.1	10	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 16:10	BML
7440-28-0	Thallium	ND		ug/L	11.1	10	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 16:10	BML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		ug/L	0.20	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 09:41	05/16/2019 14:24	SY

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

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	0.0002000	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 10:01	05/21/2019 13:11	SY

Sample Information

Client Sample ID: TB001 **York Sample ID:** 19E0591-47

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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	05/16/2019 07:30	05/16/2019 13:41	SS
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	05/16/2019 07:30	05/16/2019 13:41	SS
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	05/16/2019 07:30	05/16/2019 13:41	SS
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	05/16/2019 07:30	05/16/2019 13:41	SS
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	05/16/2019 07:30	05/16/2019 13:41	SS

Sample Information

Client Sample ID: TB001 **York Sample ID:** 19E0591-47

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS NELAC-NY10854,NELAC-NY12058,NJDEP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: TB001 **York Sample ID:** 19E0591-47

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 13:41	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: TB001 **York Sample ID:** 19E0591-47

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 13:41	SS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 13:41	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 13:41	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 13:41	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 13:41	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 13:41	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 13:41	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 13:41	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 13:41	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 13:41	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 13:41	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 13:41	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 13:41	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 13:41	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 13:41	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 13:41	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 13:41	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 13:41	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 13:41	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 13:41	SS
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 13:41	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 13:41	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 13:41	SS

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: TB001 **York Sample ID:** 19E0591-47

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*94.7 %*			*70-130*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.8 %*			*70-130*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*			*70-130*						

Sample Information

Client Sample ID: TB002 **York Sample ID:** 19E0591-48

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:13	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:13	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:13	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:13	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:13	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:13	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:13	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 14:13	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:13	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:13	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:13	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:13	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:13	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 14:13	SS

Sample Information

Client Sample ID: TB002 **York Sample ID:** 19E0591-48

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: TB002 **York Sample ID:** 19E0591-48

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13	SS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP

Sample Information

Client Sample ID: TB002 **York Sample ID:** 19E0591-48

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19E0591	LST 1802	Water	May 10, 2019 12:00 am	05/13/2019

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
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	05/16/2019 07:30	05/16/2019 14:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*95.9 %*	*70-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.8 %*	*70-130*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*70-130*

Analytical Batch Summary

Batch ID: BE90912 **Preparation Method:** EPA 3015A **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-31	MW001	05/15/19
19E0591-32	MW002	05/15/19
19E0591-32RE1	MW002	05/15/19
19E0591-33	MW003	05/15/19
19E0591-34	MW004	05/15/19
19E0591-34RE1	MW004	05/15/19
19E0591-37	DUPE003	05/15/19
19E0591-41	FB001	05/15/19
19E0591-42	EB001	05/15/19
19E0591-43	FB002	05/15/19
19E0591-44	EB002	05/15/19
19E0591-45	FB003	05/15/19
19E0591-46	EB003	05/15/19
BE90912-BLK1	Blank	05/15/19
BE90912-BS1	LCS	05/15/19
BE90912-DUP1	Duplicate	05/15/19
BE90912-MS1	Matrix Spike	05/15/19

Batch ID: BE90913 **Preparation Method:** EPA 3015A **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-31	MW001	05/15/19
19E0591-32	MW002	05/15/19
19E0591-33	MW003	05/15/19
19E0591-34	MW004	05/15/19
19E0591-37	DUPE003	05/15/19
19E0591-41	FB001	05/15/19
19E0591-42	EB001	05/15/19
19E0591-43	FB002	05/15/19
19E0591-44	EB002	05/15/19
19E0591-45	FB003	05/15/19
19E0591-46	EB003	05/15/19
BE90913-BLK1	Blank	05/15/19
BE90913-BS1	LCS	05/15/19
BE90913-DUP1	Duplicate	05/15/19
BE90913-MS1	Matrix Spike	05/15/19

Batch ID: BE90970 **Preparation Method:** EPA 5035A **Prepared By:** AB

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-25	SB009 (6-8)	05/16/19
19E0591-26	SB009 (2-4)	05/16/19
19E0591-39	SB009 (8-10) N	05/16/19
19E0591-40	SB009 (8-10) W	05/16/19
BE90970-BLK1	Blank	05/16/19

BE90970-BLK2	Blank	05/16/19
BE90970-BS1	LCS	05/16/19
BE90970-BSD1	LCS Dup	05/16/19

Batch ID: BE90972 **Preparation Method:** EPA 5030B **Prepared By:** AB

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-31	MW001	05/16/19
19E0591-32	MW002	05/16/19
19E0591-33	MW003	05/16/19
19E0591-34	MW004	05/16/19
19E0591-37	DUPE003	05/16/19
19E0591-41	FB001	05/16/19
19E0591-42	EB001	05/16/19
19E0591-43	FB002	05/16/19
19E0591-44	EB002	05/16/19
19E0591-45	FB003	05/16/19
19E0591-46	EB003	05/16/19
19E0591-47	TB001	05/16/19
19E0591-48	TB002	05/16/19
BE90972-BLK1	Blank	05/16/19
BE90972-BS1	LCS	05/16/19
BE90972-BSD1	LCS Dup	05/16/19
BE90972-MS1	Matrix Spike	05/16/19
BE90972-MSD1	Matrix Spike Dup	05/16/19

Batch ID: BE90989 **Preparation Method:** EPA 7473 water **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-31	MW001	05/16/19
19E0591-32	MW002	05/16/19
19E0591-33	MW003	05/16/19
19E0591-34	MW004	05/16/19
19E0591-37	DUPE003	05/16/19
19E0591-41	FB001	05/16/19
19E0591-42	EB001	05/16/19
19E0591-43	FB002	05/16/19
19E0591-44	EB002	05/16/19
19E0591-45	FB003	05/16/19
19E0591-46	EB003	05/16/19
BE90989-BLK1	Blank	05/16/19
BE90989-DUP1	Duplicate	05/16/19
BE90989-MS1	Matrix Spike	05/16/19
BE90989-SRM1	Reference	05/16/19

Batch ID: BE90993 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** CTD

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-31	MW001	05/16/19
19E0591-31	MW001	05/16/19

19E0591-32	MW002	05/16/19
19E0591-32	MW002	05/16/19
19E0591-33	MW003	05/16/19
19E0591-33	MW003	05/16/19
19E0591-34	MW004	05/16/19
19E0591-34	MW004	05/16/19
19E0591-37	DUPE003	05/16/19
19E0591-37	DUPE003	05/16/19
19E0591-41	FB001	05/16/19
19E0591-41	FB001	05/16/19
19E0591-42	EB001	05/16/19
19E0591-42	EB001	05/16/19
19E0591-43	FB002	05/16/19
19E0591-43	FB002	05/16/19
19E0591-44	EB002	05/16/19
19E0591-44	EB002	05/16/19
19E0591-45	FB003	05/16/19
19E0591-45	FB003	05/16/19
19E0591-46	EB003	05/16/19
19E0591-46	EB003	05/16/19
BE90993-BLK1	Blank	05/16/19
BE90993-BS1	LCS	05/16/19
BE90993-MS1	Matrix Spike	05/16/19
BE90993-MS2	Matrix Spike	05/16/19
BE90993-MSD1	Matrix Spike Dup	05/16/19
BE90993-MSD2	Matrix Spike Dup	05/16/19

Batch ID: BE91020 **Preparation Method:** EPA 3510C **Prepared By:** MAM

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-31	MW001	05/16/19
19E0591-32	MW002	05/16/19
19E0591-33	MW003	05/16/19
19E0591-34	MW004	05/16/19
19E0591-37	DUPE003	05/16/19
19E0591-41	FB001	05/16/19
19E0591-42	EB001	05/16/19
19E0591-43	FB002	05/16/19
19E0591-44	EB002	05/16/19
19E0591-45	FB003	05/16/19
19E0591-46	EB003	05/16/19
BE91020-BS2	LCS	05/16/19
BE91020-MS1	Matrix Spike	05/16/19
BE91020-MSD1	Matrix Spike Dup	05/16/19

Batch ID: BE91045 **Preparation Method:** % Solids Prep **Prepared By:** MAO

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-01	SB001 (0-2)	05/16/19
19E0591-02	SB001 (2-4)	05/16/19
19E0591-03	SB001 (4-6)	05/16/19

19E0591-04	SB002 (4-6)	05/16/19
19E0591-05	SB002 (6-8)	05/16/19
19E0591-06	SB002 (0-2)	05/16/19
19E0591-08	SB003 (10-12)	05/16/19
19E0591-09	SB003 (0-2)	05/16/19
19E0591-10	SB004 (0-2)	05/16/19
19E0591-11	SB004 (4-6)	05/16/19
19E0591-12	SB004 (2-4)	05/16/19
19E0591-13	SB005 (2-4)	05/16/19
19E0591-14	SB005 (0-2)	05/16/19
19E0591-15	SB005 (8-10)	05/16/19
19E0591-16	SB006 (0-2)	05/16/19
19E0591-17	SB006 (4-6)	05/16/19
19E0591-18	SB006 (6-8)	05/16/19
19E0591-19	SB007 (8-10)	05/16/19
19E0591-20	SB007 (12-14)	05/16/19
19E0591-21	SB007 (0-2)	05/16/19
BE91045-DUP1	Duplicate	05/16/19

Batch ID: BE91074 **Preparation Method:** EPA 5035A **Prepared By:** AB

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-27	SB009 (8-10)	05/17/19
19E0591-38	SB009 (8-10) E	05/17/19
19E0591-38RE1	SB009 (8-10) E	05/17/19
BE91074-BLK1	Blank	05/17/19
BE91074-BLK2	Blank	05/17/19
BE91074-BS1	LCS	05/17/19
BE91074-BSD1	LCS Dup	05/17/19

Batch ID: BE91114 **Preparation Method:** EPA 3015A **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-31	MW001	05/17/19
19E0591-32	MW002	05/17/19
19E0591-32RE1	MW002	05/17/19
19E0591-33	MW003	05/17/19
19E0591-34	MW004	05/17/19
19E0591-37	DUPE003	05/17/19
19E0591-41	FB001	05/17/19
19E0591-42	EB001	05/17/19
19E0591-43	FB002	05/17/19
19E0591-44	EB002	05/17/19
19E0591-45	FB003	05/17/19
19E0591-46	EB003	05/17/19
BE91114-BLK1	Blank	05/17/19
BE91114-BS1	LCS	05/17/19
BE91114-DUP1	Duplicate	05/17/19
BE91114-MS1	Matrix Spike	05/17/19

Batch ID: BE91115 **Preparation Method:** EPA 3015A **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-31	MW001	05/17/19
19E0591-32	MW002	05/17/19
19E0591-33	MW003	05/17/19
19E0591-34	MW004	05/17/19
19E0591-37	DUPE003	05/17/19
19E0591-41	FB001	05/17/19
19E0591-42	EB001	05/17/19
19E0591-43	FB002	05/17/19
19E0591-44	EB002	05/17/19
19E0591-45	FB003	05/17/19
19E0591-46	EB003	05/17/19
BE91115-BLK1	Blank	05/17/19
BE91115-BS1	LCS	05/17/19
BE91115-DUP1	Duplicate	05/17/19
BE91115-MS1	Matrix Spike	05/17/19

Batch ID: BE91124 **Preparation Method:** % Solids Prep **Prepared By:** MAO

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-07	SB003 (6-8)	05/17/19
BE91124-DUP1	Duplicate	05/17/19

Batch ID: BE91125 **Preparation Method:** % Solids Prep **Prepared By:** MAO

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-22	SB008 (6-8)	05/17/19
19E0591-23	SB008 (0-2)	05/17/19
19E0591-24	SB008 (4-6)	05/17/19
19E0591-25	SB009 (6-8)	05/17/19
19E0591-26	SB009 (2-4)	05/17/19
19E0591-27	SB009 (8-10)	05/17/19
19E0591-28	SB010 (0-2)	05/17/19
19E0591-29	SB010 (6-8)	05/17/19
19E0591-30	SB010 (2-4)	05/17/19
19E0591-35	DUPE001	05/17/19
19E0591-36	DUPE002	05/17/19
19E0591-38	SB009 (8-10) E	05/17/19
19E0591-39	SB009 (8-10) N	05/17/19
19E0591-40	SB009 (8-10) W	05/17/19

Batch ID: BE91139 **Preparation Method:** EPA 3550C **Prepared By:** LM

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-01	SB001 (0-2)	05/20/19
19E0591-01	SB001 (0-2)	05/20/19
19E0591-02	SB001 (2-4)	05/20/19
19E0591-02	SB001 (2-4)	05/20/19

19E0591-03	SB001 (4-6)	05/20/19
19E0591-03	SB001 (4-6)	05/20/19
19E0591-04	SB002 (4-6)	05/20/19
19E0591-04	SB002 (4-6)	05/20/19
19E0591-05	SB002 (6-8)	05/20/19
19E0591-05	SB002 (6-8)	05/20/19
BE91139-MS2	Matrix Spike	05/20/19
BE91139-MSD2	Matrix Spike Dup	05/20/19

Batch ID: BE91142 **Preparation Method:** EPA 3550C **Prepared By:** LM

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-01	SB001 (0-2)	05/20/19
19E0591-02	SB001 (2-4)	05/20/19
19E0591-03	SB001 (4-6)	05/20/19
19E0591-04	SB002 (4-6)	05/20/19
BE91142-BS1	LCS	05/20/19
BE91142-MS1	Matrix Spike	05/20/19
BE91142-MSD1	Matrix Spike Dup	05/20/19

Batch ID: BE91200 **Preparation Method:** EPA 3550C **Prepared By:** MAT

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-06	SB002 (0-2)	05/20/19
19E0591-06	SB002 (0-2)	05/20/19
19E0591-07	SB003 (6-8)	05/20/19
19E0591-07	SB003 (6-8)	05/20/19
19E0591-08	SB003 (10-12)	05/20/19
19E0591-08	SB003 (10-12)	05/20/19
19E0591-09	SB003 (0-2)	05/20/19
19E0591-09	SB003 (0-2)	05/20/19
19E0591-10	SB004 (0-2)	05/20/19
19E0591-10	SB004 (0-2)	05/20/19
19E0591-11	SB004 (4-6)	05/20/19
19E0591-11	SB004 (4-6)	05/20/19
19E0591-12	SB004 (2-4)	05/20/19
19E0591-12	SB004 (2-4)	05/20/19
19E0591-13	SB005 (2-4)	05/20/19
19E0591-13	SB005 (2-4)	05/20/19
19E0591-14	SB005 (0-2)	05/20/19
19E0591-14	SB005 (0-2)	05/20/19
19E0591-15	SB005 (8-10)	05/20/19
19E0591-15	SB005 (8-10)	05/20/19
19E0591-16	SB006 (0-2)	05/20/19
19E0591-16	SB006 (0-2)	05/20/19
19E0591-17	SB006 (4-6)	05/20/19
19E0591-17	SB006 (4-6)	05/20/19
19E0591-18	SB006 (6-8)	05/20/19
19E0591-18	SB006 (6-8)	05/20/19
BE91200-BLK1	Blank	05/20/19
BE91200-BS1	LCS	05/20/19

Batch ID: BE91201 **Preparation Method:** EPA 3550C **Prepared By:** MAT

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-05	SB002 (6-8)	05/20/19
19E0591-06	SB002 (0-2)	05/20/19
19E0591-07	SB003 (6-8)	05/20/19
19E0591-08	SB003 (10-12)	05/20/19
19E0591-09	SB003 (0-2)	05/20/19
19E0591-09RE1	SB003 (0-2)	05/20/19
19E0591-10	SB004 (0-2)	05/20/19
19E0591-11	SB004 (4-6)	05/20/19
19E0591-11RE1	SB004 (4-6)	05/20/19
19E0591-12	SB004 (2-4)	05/20/19
19E0591-12RE1	SB004 (2-4)	05/20/19
19E0591-13	SB005 (2-4)	05/20/19
19E0591-14	SB005 (0-2)	05/20/19
19E0591-15	SB005 (8-10)	05/20/19
19E0591-16	SB006 (0-2)	05/20/19
19E0591-17	SB006 (4-6)	05/20/19
19E0591-18	SB006 (6-8)	05/20/19
19E0591-19	SB007 (8-10)	05/20/19
19E0591-20	SB007 (12-14)	05/20/19
BE91201-BLK1	Blank	05/20/19
BE91201-BS1	LCS	05/20/19
BE91201-MS1	Matrix Spike	05/20/19
BE91201-MSD1	Matrix Spike Dup	05/20/19

Batch ID: BE91204 **Preparation Method:** EPA 3050B **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-01	SB001 (0-2)	05/20/19
19E0591-02	SB001 (2-4)	05/20/19
19E0591-03	SB001 (4-6)	05/20/19
19E0591-04	SB002 (4-6)	05/20/19
19E0591-05	SB002 (6-8)	05/20/19
19E0591-06	SB002 (0-2)	05/20/19
19E0591-27	SB009 (8-10)	05/20/19
19E0591-28	SB010 (0-2)	05/20/19
19E0591-29	SB010 (6-8)	05/20/19
19E0591-30	SB010 (2-4)	05/20/19
19E0591-35	DUPE001	05/20/19
19E0591-36	DUPE002	05/20/19
BE91204-BLK1	Blank	05/20/19
BE91204-DUP1	Duplicate	05/20/19
BE91204-MS1	Matrix Spike	05/20/19
BE91204-SRM1	Reference	05/20/19

Batch ID: BE91205 **Preparation Method:** EPA 3050B **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-07	SB003 (6-8)	05/20/19
19E0591-08	SB003 (10-12)	05/20/19
19E0591-08RE1	SB003 (10-12)	05/20/19
19E0591-09	SB003 (0-2)	05/20/19
19E0591-10	SB004 (0-2)	05/20/19
19E0591-11	SB004 (4-6)	05/20/19
19E0591-12	SB004 (2-4)	05/20/19
19E0591-13	SB005 (2-4)	05/20/19
19E0591-14	SB005 (0-2)	05/20/19
19E0591-15	SB005 (8-10)	05/20/19
19E0591-16	SB006 (0-2)	05/20/19
19E0591-17	SB006 (4-6)	05/20/19
19E0591-18	SB006 (6-8)	05/20/19
19E0591-19	SB007 (8-10)	05/20/19
19E0591-20	SB007 (12-14)	05/20/19
19E0591-21	SB007 (0-2)	05/20/19
19E0591-22	SB008 (6-8)	05/20/19
19E0591-23	SB008 (0-2)	05/20/19
19E0591-24	SB008 (4-6)	05/20/19
19E0591-25	SB009 (6-8)	05/20/19
19E0591-26	SB009 (2-4)	05/20/19
BE91205-BLK1	Blank	05/20/19
BE91205-DUP1	Duplicate	05/20/19
BE91205-MS1	Matrix Spike	05/20/19
BE91205-SRM1	Reference	05/20/19

Batch ID: BE91249 **Preparation Method:** EPA 3550C **Prepared By:** LM

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-21	SB007 (0-2)	05/21/19
19E0591-22	SB008 (6-8)	05/21/19
19E0591-23	SB008 (0-2)	05/21/19
19E0591-24	SB008 (4-6)	05/21/19
19E0591-25	SB009 (6-8)	05/21/19
19E0591-26	SB009 (2-4)	05/21/19
19E0591-27	SB009 (8-10)	05/21/19
19E0591-28	SB010 (0-2)	05/21/19
19E0591-29	SB010 (6-8)	05/21/19
19E0591-30	SB010 (2-4)	05/21/19
19E0591-30RE1	SB010 (2-4)	05/21/19
19E0591-35	DUPE001	05/21/19
19E0591-36	DUPE002	05/21/19
BE91249-BLK1	Blank	05/21/19
BE91249-BS1	LCS	05/21/19

Batch ID: BE91266 **Preparation Method:** EPA 7473 water **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-31	MW001	05/21/19
19E0591-32	MW002	05/21/19

19E0591-33	MW003	05/21/19
19E0591-34	MW004	05/21/19
19E0591-37	DUPE003	05/21/19
19E0591-41	FB001	05/21/19
19E0591-42	EB001	05/21/19
19E0591-43	FB002	05/21/19
19E0591-44	EB002	05/21/19
19E0591-45	FB003	05/21/19
19E0591-46	EB003	05/21/19
BE91266-BLK1	Blank	05/21/19
BE91266-DUP1	Duplicate	05/21/19
BE91266-MS1	Matrix Spike	05/21/19
BE91266-SRM1	Reference	05/21/19

Batch ID: BE91342 **Preparation Method:** EPA 7473 soil **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-01	SB001 (0-2)	05/22/19
19E0591-02	SB001 (2-4)	05/22/19
19E0591-03	SB001 (4-6)	05/22/19
19E0591-04	SB002 (4-6)	05/22/19
19E0591-05	SB002 (6-8)	05/22/19
BE91342-BLK1	Blank	05/22/19
BE91342-DUP1	Duplicate	05/22/19
BE91342-MS1	Matrix Spike	05/22/19
BE91342-SRM1	Reference	05/22/19

Batch ID: BE91343 **Preparation Method:** EPA 7473 soil **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-06	SB002 (0-2)	05/22/19
19E0591-07	SB003 (6-8)	05/22/19
19E0591-08	SB003 (10-12)	05/22/19
19E0591-09	SB003 (0-2)	05/22/19
19E0591-10	SB004 (0-2)	05/22/19
19E0591-11	SB004 (4-6)	05/22/19
19E0591-12	SB004 (2-4)	05/22/19
19E0591-13	SB005 (2-4)	05/22/19
19E0591-14	SB005 (0-2)	05/22/19
19E0591-15	SB005 (8-10)	05/22/19
19E0591-16	SB006 (0-2)	05/22/19
19E0591-17	SB006 (4-6)	05/22/19
19E0591-18	SB006 (6-8)	05/22/19
19E0591-19	SB007 (8-10)	05/22/19
19E0591-20	SB007 (12-14)	05/22/19
19E0591-21	SB007 (0-2)	05/22/19
BE91343-BLK1	Blank	05/22/19
BE91343-DUP1	Duplicate	05/22/19
BE91343-MS1	Matrix Spike	05/22/19
BE91343-SRM1	Reference	05/22/19

Batch ID: BE91382 **Preparation Method:** EPA 7473 soil **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19E0591-22	SB008 (6-8)	05/22/19
19E0591-23	SB008 (0-2)	05/22/19
19E0591-24	SB008 (4-6)	05/22/19
19E0591-25	SB009 (6-8)	05/22/19
19E0591-26	SB009 (2-4)	05/22/19
19E0591-27	SB009 (8-10)	05/22/19
19E0591-28	SB010 (0-2)	05/22/19
19E0591-29	SB010 (6-8)	05/22/19
19E0591-30	SB010 (2-4)	05/22/19
19E0591-35	DUPE001	05/22/19
19E0591-36	DUPE002	05/22/19
BE91382-BLK1	Blank	05/22/19
BE91382-DUP1	Duplicate	05/22/19
BE91382-MS1	Matrix Spike	05/22/19
BE91382-SRM1	Reference	05/22/19

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 BE90970 - EPA 5035A											
Blank (BE90970-BLK1)											Prepared & Analyzed: 05/16/2019
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	"								
1,1-Dichloropropylene	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	"								
1,3-Dichloropropane	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2,2-Dichloropropane	ND	0.0050	"								
2-Butanone	ND	0.0050	"								
2-Chlorotoluene	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Chlorotoluene	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	"								
Bromobenzene	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	"								

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 BE90970 - EPA 5035A											
Blank (BE90970-BLK1)											Prepared & Analyzed: 05/16/2019
Ethyl Benzene	ND	0.0050	mg/kg wet								
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	0.025	"								
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 acetate	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.4*		*ug/L*	*50.0*		*101*	*77-125*				
Surrogate: SURR: Toluene-d8	*49.4*		*"*	*50.0*		*98.9*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.5*		*"*	*50.0*		*97.1*	*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 BE90970 - EPA 5035A											
Blank (BE90970-BLK2)											Prepared & Analyzed: 05/16/2019
1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	0.50	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								

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 BE90970 - EPA 5035A											
Blank (BE90970-BLK2)											Prepared & Analyzed: 05/16/2019
Hexachlorobutadiene	ND	0.50	mg/kg wet								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	2.5	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl acetate	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*49.7*		*ug/L*	*50.0*		*99.4*	*77-125*				
Surrogate: SURR: Toluene-d8	*49.2*		*"*	*50.0*		*98.3*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.7*		*"*	*50.0*		*97.4*	*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 BE90970 - EPA 5035A											
LCS (BE90970-BS1)								Prepared & Analyzed: 05/16/2019			
1,1,1,2-Tetrachloroethane	50.4		ug/L	50.0		101	75-129				
1,1,1-Trichloroethane	50.0		"	50.0		100	71-137				
1,1,2,2-Tetrachloroethane	48.2		"	50.0		96.5	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	49.9		"	50.0		99.8	58-146				
1,1,2-Trichloroethane	48.4		"	50.0		96.8	83-123				
1,1-Dichloroethane	49.5		"	50.0		99.0	75-130				
1,1-Dichloroethylene	48.4		"	50.0		96.7	64-137				
1,1-Dichloropropylene	49.1		"	50.0		98.2	77-127				
1,2,3-Trichlorobenzene	48.0		"	50.0		96.0	81-140				
1,2,3-Trichloropropane	49.0		"	50.0		98.1	81-126				
1,2,4-Trichlorobenzene	48.0		"	50.0		96.0	80-141				
1,2,4-Trimethylbenzene	47.0		"	50.0		94.0	84-125				
1,2-Dibromo-3-chloropropane	47.8		"	50.0		95.5	74-142				
1,2-Dibromoethane	51.6		"	50.0		103	86-123				
1,2-Dichlorobenzene	49.0		"	50.0		98.1	85-122				
1,2-Dichloroethane	51.1		"	50.0		102	71-133				
1,2-Dichloropropane	46.4		"	50.0		92.8	81-122				
1,3,5-Trimethylbenzene	47.0		"	50.0		94.0	82-126				
1,3-Dichlorobenzene	47.6		"	50.0		95.1	84-124				
1,3-Dichloropropane	49.3		"	50.0		98.6	83-123				
1,4-Dichlorobenzene	47.8		"	50.0		95.6	84-124				
1,4-Dioxane	1020		"	1050		97.5	10-228				
2,2-Dichloropropane	50.1		"	50.0		100	67-136				
2-Butanone	54.1		"	50.0		108	58-147				
2-Chlorotoluene	45.2		"	50.0		90.4	78-127				
2-Hexanone	46.8		"	50.0		93.7	70-139				
4-Chlorotoluene	46.7		"	50.0		93.3	79-125				
4-Methyl-2-pentanone	46.6		"	50.0		93.2	72-132				
Acetone	51.3		"	50.0		103	36-155				
Acrolein	50.4		"	50.0		101	10-238				
Acrylonitrile	50.5		"	50.0		101	66-141				
Benzene	51.2		"	50.0		102	77-127				
Bromobenzene	46.2		"	50.0		92.4	77-129				
Bromochloromethane	48.1		"	50.0		96.3	74-129				
Bromodichloromethane	48.9		"	50.0		97.9	81-124				
Bromoform	49.0		"	50.0		97.9	80-136				
Bromomethane	56.3		"	50.0		113	32-177				
Carbon disulfide	50.3		"	50.0		101	10-136				
Carbon tetrachloride	51.6		"	50.0		103	66-143				
Chlorobenzene	49.0		"	50.0		98.1	86-120				
Chloroethane	54.1		"	50.0		108	51-142				
Chloroform	50.8		"	50.0		102	76-131				
Chloromethane	53.0		"	50.0		106	49-132				
cis-1,2-Dichloroethylene	50.2		"	50.0		100	74-132				
cis-1,3-Dichloropropylene	47.4		"	50.0		94.8	81-129				
Cyclohexane	50.1		"	50.0		100	70-130				
Dibromochloromethane	50.0		"	50.0		99.9	10-200				
Dibromomethane	49.2		"	50.0		98.5	83-124				
Dichlorodifluoromethane	64.1		"	50.0		128	28-158				
Ethyl Benzene	49.4		"	50.0		98.7	84-125				

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 BE90970 - EPA 5035A											
LCS (BE90970-BS1)							Prepared & Analyzed: 05/16/2019				
Hexachlorobutadiene	48.7		ug/L	50.0		97.3	83-133				
Isopropylbenzene	46.4		"	50.0		92.7	81-127				
Methyl acetate	46.9		"	50.0		93.9	41-143				
Methyl tert-butyl ether (MTBE)	51.8		"	50.0		104	74-131				
Methylcyclohexane	47.9		"	50.0		95.9	70-130				
Methylene chloride	49.6		"	50.0		99.2	57-141				
n-Butylbenzene	47.3		"	50.0		94.7	80-130				
n-Propylbenzene	46.9		"	50.0		93.8	74-136				
o-Xylene	49.4		"	50.0		98.9	83-123				
p- & m- Xylenes	98.7		"	100		98.7	82-128				
p-Isopropyltoluene	48.4		"	50.0		96.9	85-125				
sec-Butylbenzene	49.4		"	50.0		98.7	83-125				
Styrene	49.6		"	50.0		99.2	86-126				
tert-Butyl alcohol (TBA)	252		"	250		101	70-130				
tert-Butylbenzene	41.4		"	50.0		82.8	80-127				
Tetrachloroethylene	48.3		"	50.0		96.7	80-129				
Toluene	49.3		"	50.0		98.5	85-121				
trans-1,2-Dichloroethylene	49.1		"	50.0		98.3	72-132				
trans-1,3-Dichloropropylene	47.5		"	50.0		95.0	78-132				
Trichloroethylene	48.9		"	50.0		97.8	84-123				
Trichlorofluoromethane	55.9		"	50.0		112	62-140				
Vinyl acetate	49.5		"	50.0		99.0	67-136				
Vinyl Chloride	60.4		"	50.0		121	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.8*		*"*	*50.0*		*102*	*77-125*				
Surrogate: SURR: Toluene-d8	*49.2*		*"*	*50.0*		*98.3*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*47.9*		*"*	*50.0*		*95.8*	*76-130*				
LCS Dup (BE90970-BSD1)							Prepared & Analyzed: 05/16/2019				
1,1,1,2-Tetrachloroethane	50.6		ug/L	50.0		101	75-129		0.436	30	
1,1,1-Trichloroethane	51.0		"	50.0		102	71-137		1.94	30	
1,1,2,2-Tetrachloroethane	48.3		"	50.0		96.5	79-129		0.0622	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51.4		"	50.0		103	58-146		2.96	30	
1,1,2-Trichloroethane	48.5		"	50.0		97.0	83-123		0.206	30	
1,1-Dichloroethane	50.2		"	50.0		100	75-130		1.36	30	
1,1-Dichloroethylene	49.5		"	50.0		99.1	64-137		2.37	30	
1,1-Dichloropropylene	50.4		"	50.0		101	77-127		2.55	30	
1,2,3-Trichlorobenzene	50.3		"	50.0		101	81-140		4.62	30	
1,2,3-Trichloropropane	50.0		"	50.0		100	81-126		1.92	30	
1,2,4-Trichlorobenzene	50.2		"	50.0		100	80-141		4.40	30	
1,2,4-Trimethylbenzene	48.8		"	50.0		97.6	84-125		3.69	30	
1,2-Dibromo-3-chloropropane	47.5		"	50.0		95.0	74-142		0.567	30	
1,2-Dibromoethane	50.5		"	50.0		101	86-123		2.27	30	
1,2-Dichlorobenzene	50.0		"	50.0		99.9	85-122		1.90	30	
1,2-Dichloroethane	51.1		"	50.0		102	71-133		0.117	30	
1,2-Dichloropropane	47.6		"	50.0		95.3	81-122		2.57	30	
1,3,5-Trimethylbenzene	49.0		"	50.0		98.0	82-126		4.15	30	
1,3-Dichlorobenzene	49.3		"	50.0		98.7	84-124		3.65	30	
1,3-Dichloropropane	48.6		"	50.0		97.2	83-123		1.39	30	
1,4-Dichlorobenzene	49.6		"	50.0		99.2	84-124		3.66	30	
1,4-Dioxane	1080		"	1050		103	10-228		5.51	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 BE90970 - EPA 5035A											
LCS Dup (BE90970-BSD1)								Prepared & Analyzed: 05/16/2019			
2,2-Dichloropropane	50.7		ug/L	50.0		101	67-136		1.21	30	
2-Butanone	52.8		"	50.0		106	58-147		2.41	30	
2-Chlorotoluene	46.1		"	50.0		92.3	78-127		1.99	30	
2-Hexanone	46.0		"	50.0		92.0	70-139		1.77	30	
4-Chlorotoluene	48.2		"	50.0		96.3	79-125		3.16	30	
4-Methyl-2-pentanone	46.2		"	50.0		92.4	72-132		0.819	30	
Acetone	51.7		"	50.0		103	36-155		0.874	30	
Acrolein	47.9		"	50.0		95.8	10-238		5.03	30	
Acrylonitrile	48.9		"	50.0		97.7	66-141		3.22	30	
Benzene	51.9		"	50.0		104	77-127		1.30	30	
Bromobenzene	47.4		"	50.0		94.8	77-129		2.58	30	
Bromochloromethane	48.4		"	50.0		96.9	74-129		0.621	30	
Bromodichloromethane	49.2		"	50.0		98.3	81-124		0.428	30	
Bromoform	48.4		"	50.0		96.7	80-136		1.23	30	
Bromomethane	55.7		"	50.0		111	32-177		1.00	30	
Carbon disulfide	50.9		"	50.0		102	10-136		1.23	30	
Carbon tetrachloride	52.1		"	50.0		104	66-143		0.907	30	
Chlorobenzene	49.6		"	50.0		99.2	86-120		1.14	30	
Chloroethane	53.7		"	50.0		107	51-142		0.649	30	
Chloroform	51.1		"	50.0		102	76-131		0.628	30	
Chloromethane	53.7		"	50.0		107	49-132		1.33	30	
cis-1,2-Dichloroethylene	50.5		"	50.0		101	74-132		0.596	30	
cis-1,3-Dichloropropylene	47.7		"	50.0		95.5	81-129		0.673	30	
Cyclohexane	51.1		"	50.0		102	70-130		1.98	30	
Dibromochloromethane	49.8		"	50.0		99.6	10-200		0.281	30	
Dibromomethane	49.2		"	50.0		98.5	83-124		0.0203	30	
Dichlorodifluoromethane	65.5		"	50.0		131	28-158		2.10	30	
Ethyl Benzene	50.6		"	50.0		101	84-125		2.54	30	
Hexachlorobutadiene	51.9		"	50.0		104	83-133		6.46	30	
Isopropylbenzene	47.8		"	50.0		95.6	81-127		3.02	30	
Methyl acetate	46.5		"	50.0		93.0	41-143		0.963	30	
Methyl tert-butyl ether (MTBE)	51.3		"	50.0		103	74-131		1.11	30	
Methylcyclohexane	49.9		"	50.0		99.8	70-130		4.05	30	
Methylene chloride	49.1		"	50.0		98.2	57-141		0.932	30	
n-Butylbenzene	48.4		"	50.0		96.8	80-130		2.17	30	
n-Propylbenzene	48.9		"	50.0		97.8	74-136		4.11	30	
o-Xylene	50.2		"	50.0		100	83-123		1.59	30	
p- & m- Xylenes	100		"	100		100	82-128		1.64	30	
p-Isopropyltoluene	49.9		"	50.0		99.8	85-125		2.97	30	
sec-Butylbenzene	51.5		"	50.0		103	83-125		4.34	30	
Styrene	50.7		"	50.0		101	86-126		2.19	30	
tert-Butyl alcohol (TBA)	263		"	250		105	70-130		4.05	30	
tert-Butylbenzene	43.6		"	50.0		87.1	80-127		5.01	30	
Tetrachloroethylene	50.0		"	50.0		99.9	80-129		3.32	30	
Toluene	50.4		"	50.0		101	85-121		2.27	30	
trans-1,2-Dichloroethylene	49.7		"	50.0		99.4	72-132		1.13	30	
trans-1,3-Dichloropropylene	47.0		"	50.0		94.1	78-132		1.02	30	
Trichloroethylene	49.8		"	50.0		99.7	84-123		1.88	30	
Trichlorofluoromethane	56.1		"	50.0		112	62-140		0.411	30	
Vinyl acetate	49.3		"	50.0		98.6	67-136		0.405	30	
Vinyl Chloride	61.0		"	50.0		122	52-130		0.956	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 BE90970 - EPA 5035A											
LCS Dup (BE90970-BSD1)											Prepared & Analyzed: 05/16/2019
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.6*		*ug/L*	*50.0*		*101*	*77-125*				
Surrogate: SURR: Toluene-d8	*49.3*		*"*	*50.0*		*98.5*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.4*		*"*	*50.0*		*96.9*	*76-130*				
Batch BE90972 - EPA 5030B											
Blank (BE90972-BLK1)											Prepared & Analyzed: 05/16/2019
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	"								
1,1-Dichloropropylene	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	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2,2-Dichloropropane	ND	0.500	"								
2-Butanone	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	2.00	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromobenzene	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	"								

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 BE90972 - EPA 5030B											
Blank (BE90972-BLK1)											
Prepared & Analyzed: 05/16/2019											
cis-1,3-Dichloropropylene	ND	0.500	ug/L								
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	"								
n-Propylbenzene	ND	0.500	"								
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	2.50	"								
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 acetate	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.32*		*"*	*10.0*		*93.2*	*70-130*				
Surrogate: SURR: Toluene-d8	*9.81*		*"*	*10.0*		*98.1*	*70-130*				
Surrogate: SURR: p-Bromofluorobenzene	*10.8*		*"*	*10.0*		*108*	*70-130*				

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 BE90972 - EPA 5030B											
LCS (BE90972-BS1)							Prepared & Analyzed: 05/16/2019				
1,1,1,2-Tetrachloroethane	10.2		ug/L	10.0		102	82-126			30	
1,1,1-Trichloroethane	12.1		"	10.0		121	70-130			20	
1,1,2,2-Tetrachloroethane	10.4		"	10.0		104	70-130			20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.0		"	10.0		120	70-130			20	
1,1,2-Trichloroethane	9.66		"	10.0		96.6	70-130			20	
1,1-Dichloroethane	12.1		"	10.0		121	70-130			20	
1,1-Dichloroethylene	12.3		"	10.0		123	70-130			20	
1,1-Dichloropropylene	11.8		"	10.0		118	83-133			30	
1,2,3-Trichlorobenzene	8.53		"	10.0		85.3	70-130			20	
1,2,3-Trichloropropane	9.76		"	10.0		97.6	77-128			30	
1,2,4-Trichlorobenzene	9.38		"	10.0		93.8	70-130			20	
1,2,4-Trimethylbenzene	11.0		"	10.0		110	82-132			20	
1,2-Dibromo-3-chloropropane	9.45		"	10.0		94.5	40-160			20	
1,2-Dibromoethane	9.86		"	10.0		98.6	70-130			20	
1,2-Dichlorobenzene	10.1		"	10.0		101	70-130			20	
1,2-Dichloroethane	11.0		"	10.0		110	70-130			20	
1,2-Dichloropropane	10.8		"	10.0		108	70-130			20	
1,3,5-Trimethylbenzene	11.1		"	10.0		111	80-131			30	
1,3-Dichlorobenzene	10.7		"	10.0		107	70-130			20	
1,3-Dichloropropane	10.2		"	10.0		102	81-125			30	
1,4-Dichlorobenzene	10.5		"	10.0		105	70-130			20	
1,4-Dioxane	99.7		"	210		47.5	40-160			20	
2,2-Dichloropropane	12.2		"	10.0		122	56-150			30	
2-Butanone	11.4		"	10.0		114	40-160			20	
2-Chlorotoluene	11.2		"	10.0		112	79-130			30	
2-Hexanone	10.4		"	10.0		104	40-160			20	
4-Chlorotoluene	11.3		"	10.0		113	79-128			30	
4-Methyl-2-pentanone	9.35		"	10.0		93.5	40-160			20	
Acetone	11.6		"	10.0		116	40-160			20	
Acrolein	11.4		"	10.0		114	10-153			30	
Acrylonitrile	9.42		"	10.0		94.2	51-150			30	
Benzene	12.1		"	10.0		121	70-130			20	
Bromobenzene	10.8		"	10.0		108	78-129			30	
Bromochloromethane	12.0		"	10.0		120	70-130			20	
Bromodichloromethane	10.3		"	10.0		103	70-130			20	
Bromoform	9.15		"	10.0		91.5	70-130			20	
Bromomethane	8.32		"	10.0		83.2	40-160			20	
Carbon disulfide	12.9		"	10.0		129	40-160			20	
Carbon tetrachloride	12.2		"	10.0		122	70-130			20	
Chlorobenzene	10.5		"	10.0		105	70-130			20	
Chloroethane	13.1		"	10.0		131	40-160			20	
Chloroform	11.6		"	10.0		116	70-130			20	
Chloromethane	13.2		"	10.0		132	40-160			20	
cis-1,2-Dichloroethylene	12.2		"	10.0		122	70-130			20	
cis-1,3-Dichloropropylene	10.7		"	10.0		107	70-130			20	
Cyclohexane	12.4		"	10.0		124	70-130			20	
Dibromochloromethane	9.73		"	10.0		97.3	70-130			20	
Dibromomethane	9.85		"	10.0		98.5	72-134			30	
Dichlorodifluoromethane	14.6		"	10.0		146	40-160			20	
Ethyl Benzene	11.0		"	10.0		110	70-130			20	

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 BE90972 - EPA 5030B											
LCS (BE90972-BS1)								Prepared & Analyzed: 05/16/2019			
Hexachlorobutadiene	9.17		ug/L	10.0		91.7	67-146			30	
Isopropylbenzene	11.2		"	10.0		112	70-130			20	
Methyl acetate	10.0		"	10.0		100	70-130			20	
Methyl tert-butyl ether (MTBE)	11.2		"	10.0		112	70-130			20	
Methylcyclohexane	11.0		"	10.0		110	70-130			20	
Methylene chloride	11.2		"	10.0		112	70-130			20	
n-Butylbenzene	11.2		"	10.0		112	79-132			30	
n-Propylbenzene	11.2		"	10.0		112	78-133			30	
o-Xylene	10.8		"	10.0		108	70-130			20	
p- & m- Xylenes	22.1		"	20.0		110	70-130			20	
p-Isopropyltoluene	10.8		"	10.0		108	81-136			30	
sec-Butylbenzene	11.1		"	10.0		111	79-137			30	
Styrene	10.5		"	10.0		105	70-130			20	
tert-Butyl alcohol (TBA)	35.1		"	50.0		70.2	25-162			30	
tert-Butylbenzene	10.8		"	10.0		108	77-138			30	
Tetrachloroethylene	8.82		"	10.0		88.2	70-130			20	
Toluene	10.9		"	10.0		109	70-130			20	
trans-1,2-Dichloroethylene	12.5		"	10.0		125	70-130			20	
trans-1,3-Dichloropropylene	10.6		"	10.0		106	70-130			20	
Trichloroethylene	10.4		"	10.0		104	70-130			20	
Trichlorofluoromethane	12.8		"	10.0		128	40-160			20	
Vinyl acetate	9.88		"	10.0		98.8	21-90	High Bias		30	
Vinyl Chloride	14.0		"	10.0		140	70-130	High Bias		20	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.27*		*"*	*10.0*		*92.7*	*70-130*				
Surrogate: SURR: Toluene-d8	*9.57*		*"*	*10.0*		*95.7*	*70-130*				
Surrogate: SURR: p-Bromofluorobenzene	*10.7*		*"*	*10.0*		*107*	*70-130*				
LCS Dup (BE90972-BSD1)								Prepared & Analyzed: 05/16/2019			
1,1,1,2-Tetrachloroethane	9.91		ug/L	10.0		99.1	82-126		2.59	30	
1,1,1-Trichloroethane	10.9		"	10.0		109	70-130		9.74	20	
1,1,2,2-Tetrachloroethane	9.91		"	10.0		99.1	70-130		4.44	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0		"	10.0		110	70-130		8.72	20	
1,1,2-Trichloroethane	9.32		"	10.0		93.2	70-130		3.58	20	
1,1-Dichloroethane	11.0		"	10.0		110	70-130		9.40	20	
1,1-Dichloroethylene	11.3		"	10.0		113	70-130		8.64	20	
1,1-Dichloropropylene	10.9		"	10.0		109	83-133		7.99	30	
1,2,3-Trichlorobenzene	8.09		"	10.0		80.9	70-130		5.29	20	
1,2,3-Trichloropropane	9.05		"	10.0		90.5	77-128		7.55	30	
1,2,4-Trichlorobenzene	8.40		"	10.0		84.0	70-130		11.0	20	
1,2,4-Trimethylbenzene	10.4		"	10.0		104	82-132		4.95	20	
1,2-Dibromo-3-chloropropane	9.14		"	10.0		91.4	40-160		3.34	20	
1,2-Dibromoethane	9.22		"	10.0		92.2	70-130		6.71	20	
1,2-Dichlorobenzene	9.60		"	10.0		96.0	70-130		4.88	20	
1,2-Dichloroethane	10.2		"	10.0		102	70-130		7.94	20	
1,2-Dichloropropane	10.7		"	10.0		107	70-130		1.30	20	
1,3,5-Trimethylbenzene	10.7		"	10.0		107	80-131		4.13	30	
1,3-Dichlorobenzene	10.2		"	10.0		102	70-130		5.07	20	
1,3-Dichloropropane	9.98		"	10.0		99.8	81-125		2.28	30	
1,4-Dichlorobenzene	9.97		"	10.0		99.7	70-130		5.08	20	
1,4-Dioxane	91.0		"	210		43.3	40-160		9.11	20	

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 BE90972 - EPA 5030B											
LCS Dup (BE90972-BSD1)								Prepared & Analyzed: 05/16/2019			
2,2-Dichloropropane	11.1		ug/L	10.0		111	56-150		9.69	30	
2-Butanone	10.0		"	10.0		100	40-160		13.2	20	
2-Chlorotoluene	10.7		"	10.0		107	79-130		5.11	30	
2-Hexanone	9.99		"	10.0		99.9	40-160		4.50	20	
4-Chlorotoluene	10.7		"	10.0		107	79-128		5.72	30	
4-Methyl-2-pentanone	9.20		"	10.0		92.0	40-160		1.62	20	
Acetone	9.24		"	10.0		92.4	40-160		22.6	20	Non-dir.
Acrolein	9.29		"	10.0		92.9	10-153		20.1	30	
Acrylonitrile	8.01		"	10.0		80.1	51-150		16.2	30	
Benzene	10.9		"	10.0		109	70-130		10.2	20	
Bromobenzene	10.5		"	10.0		105	78-129		2.62	30	
Bromochloromethane	10.8		"	10.0		108	70-130		10.0	20	
Bromodichloromethane	10.4		"	10.0		104	70-130		0.675	20	
Bromoform	9.20		"	10.0		92.0	70-130		0.545	20	
Bromomethane	9.35		"	10.0		93.5	40-160		11.7	20	
Carbon disulfide	11.5		"	10.0		115	40-160		11.6	20	
Carbon tetrachloride	10.6		"	10.0		106	70-130		13.2	20	
Chlorobenzene	10.3		"	10.0		103	70-130		2.11	20	
Chloroethane	11.9		"	10.0		119	40-160		9.57	20	
Chloroform	10.5		"	10.0		105	70-130		9.92	20	
Chloromethane	11.6		"	10.0		116	40-160		12.9	20	
cis-1,2-Dichloroethylene	11.0		"	10.0		110	70-130		10.5	20	
cis-1,3-Dichloropropylene	10.6		"	10.0		106	70-130		0.281	20	
Cyclohexane	11.1		"	10.0		111	70-130		10.6	20	
Dibromochloromethane	9.64		"	10.0		96.4	70-130		0.929	20	
Dibromomethane	9.83		"	10.0		98.3	72-134		0.203	30	
Dichlorodifluoromethane	13.2		"	10.0		132	40-160		10.2	20	
Ethyl Benzene	10.6		"	10.0		106	70-130		3.34	20	
Hexachlorobutadiene	8.81		"	10.0		88.1	67-146		4.00	30	
Isopropylbenzene	10.8		"	10.0		108	70-130		3.37	20	
Methyl acetate	9.27		"	10.0		92.7	70-130		7.88	20	
Methyl tert-butyl ether (MTBE)	10.1		"	10.0		101	70-130		10.1	20	
Methylcyclohexane	10.6		"	10.0		106	70-130		3.60	20	
Methylene chloride	10.2		"	10.0		102	70-130		9.45	20	
n-Butylbenzene	10.0		"	10.0		100	79-132		10.6	30	
n-Propylbenzene	10.9		"	10.0		109	78-133		2.63	30	
o-Xylene	10.4		"	10.0		104	70-130		3.78	20	
p- & m- Xylenes	21.3		"	20.0		107	70-130		3.64	20	
p-Isopropyltoluene	10.3		"	10.0		103	81-136		4.17	30	
sec-Butylbenzene	10.5		"	10.0		105	79-137		5.09	30	
Styrene	10.2		"	10.0		102	70-130		3.57	20	
tert-Butyl alcohol (TBA)	30.9		"	50.0		61.8	25-162		12.7	30	
tert-Butylbenzene	10.2		"	10.0		102	77-138		4.95	30	
Tetrachloroethylene	8.36		"	10.0		83.6	70-130		5.36	20	
Toluene	10.5		"	10.0		105	70-130		3.55	20	
trans-1,2-Dichloroethylene	11.2		"	10.0		112	70-130		10.7	20	
trans-1,3-Dichloropropylene	10.1		"	10.0		101	70-130		4.94	20	
Trichloroethylene	10.6		"	10.0		106	70-130		1.81	20	
Trichlorofluoromethane	11.5		"	10.0		115	40-160		10.8	20	
Vinyl acetate	8.60		"	10.0		86.0	21-90		13.9	30	
Vinyl Chloride	12.3		"	10.0		123	70-130		12.8	20	

Volatile Organic Compounds by GC/MS - Quality Control Data

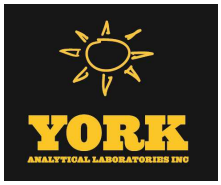
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE90972 - EPA 5030B											
LCS Dup (BE90972-BSD1)								Prepared & Analyzed: 05/16/2019			
Surrogate: SURR: 1,2-Dichloroethane-d4	*8.56*		*ug/L*	*10.0*		*85.6*	*70-130*				
Surrogate: SURR: Toluene-d8	*9.88*		*"*	*10.0*		*98.8*	*70-130*				
Surrogate: SURR: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*70-130*				
Matrix Spike (BE90972-MS1)	*Source sample: 19E0591-32 (MW002)							Prepared & Analyzed: 05/16/2019			
1,1,1,2-Tetrachloroethane	9.89		ug/L	10.0	0.00	98.9	45-161			30	
1,1,1-Trichloroethane	10.1		"	10.0	0.00	101	70-130			20	
1,1,2,2-Tetrachloroethane	11.3		"	10.0	0.00	113	70-130			20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.88		"	10.0	0.00	88.8	70-130			20	
1,1,2-Trichloroethane	9.47		"	10.0	0.00	94.7	70-130			20	
1,1-Dichloroethane	10.5		"	10.0	0.00	105	70-130			20	
1,1-Dichloroethylene	10.2		"	10.0	0.00	102	70-130			20	
1,1-Dichloropropylene	9.59		"	10.0	0.00	95.9	82-134			30	
1,2,3-Trichlorobenzene	7.06		"	10.0	0.00	70.6	70-130			20	
1,2,3-Trichloropropane	10.2		"	10.0	0.00	102	74-127			30	
1,2,4-Trichlorobenzene	6.76		"	10.0	0.00	67.6	70-130	Low Bias		20	
1,2,4-Trimethylbenzene	8.77		"	10.0	0.00	87.7	72-129			20	
1,2-Dibromo-3-chloropropane	9.29		"	10.0	0.00	92.9	40-160			20	
1,2-Dibromoethane	9.45		"	10.0	0.00	94.5	70-130			20	
1,2-Dichlorobenzene	8.50		"	10.0	0.00	85.0	70-130			20	
1,2-Dichloroethane	10.1		"	10.0	0.00	101	70-130			20	
1,2-Dichloropropane	9.73		"	10.0	0.00	97.3	70-130			20	
1,3,5-Trimethylbenzene	9.03		"	10.0	0.00	90.3	69-126			30	
1,3-Dichlorobenzene	8.38		"	10.0	0.00	83.8	70-130			20	
1,3-Dichloropropane	9.92		"	10.0	0.00	99.2	77-119			30	
1,4-Dichlorobenzene	8.19		"	10.0	0.00	81.9	70-130			20	
1,4-Dioxane	51.4		"	210	0.00	24.5	40-160	Low Bias		20	
2,2-Dichloropropane	10.5		"	10.0	0.00	105	10-160			30	
2-Butanone	7.51		"	10.0	0.00	75.1	40-160			20	
2-Chlorotoluene	9.70		"	10.0	0.00	97.0	70-126			30	
2-Hexanone	8.57		"	10.0	0.00	85.7	40-160			20	
4-Chlorotoluene	9.23		"	10.0	0.00	92.3	69-124			30	
4-Methyl-2-pentanone	9.41		"	10.0	0.00	94.1	40-160			20	
Acetone	5.82		"	10.0	0.870	49.5	40-160			20	
Acrolein	8.16		"	10.0	0.00	81.6	10-195			30	
Acrylonitrile	8.35		"	10.0	0.00	83.5	37-165			30	
Benzene	10.3		"	10.0	0.00	103	70-130			20	
Bromobenzene	10.2		"	10.0	0.00	102	72-122			30	
Bromochloromethane	10.5		"	10.0	0.00	105	70-130			20	
Bromodichloromethane	9.74		"	10.0	0.00	97.4	70-130			20	
Bromoform	9.04		"	10.0	0.00	90.4	70-130			20	
Bromomethane	8.90		"	10.0	0.00	89.0	40-160			20	
Carbon disulfide	10.8		"	10.0	0.00	108	40-160			20	
Carbon tetrachloride	9.82		"	10.0	0.00	98.2	70-130			20	
Chlorobenzene	9.25		"	10.0	0.00	92.5	70-130			20	
Chloroethane	12.3		"	10.0	0.00	123	40-160			20	
Chloroform	10.0		"	10.0	0.00	100	70-130			20	
Chloromethane	11.3		"	10.0	0.00	113	40-160			20	
cis-1,2-Dichloroethylene	10.4		"	10.0	0.00	104	70-130			20	
cis-1,3-Dichloropropylene	9.76		"	10.0	0.00	97.6	70-130			20	

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 BE90972 - EPA 5030B											
Matrix Spike (BE90972-MS1)	*Source sample: 19E0591-32 (MW002)							Prepared & Analyzed: 05/16/2019			
Cyclohexane	9.37		ug/L	10.0	0.00	93.7	70-130			20	
Dibromochloromethane	9.80		"	10.0	0.00	98.0	70-130			20	
Dibromomethane	9.60		"	10.0	0.00	96.0	76-120			30	
Dichlorodifluoromethane	13.9		"	10.0	0.00	139	40-160			20	
Ethyl Benzene	9.40		"	10.0	0.00	94.0	70-130			20	
Hexachlorobutadiene	6.86		"	10.0	0.00	68.6	34-166			30	
Isopropylbenzene	8.81		"	10.0	0.00	88.1	70-130			20	
Methyl acetate	8.97		"	10.0	0.00	89.7	70-130			20	
Methyl tert-butyl ether (MTBE)	10.2		"	10.0	0.00	102	70-130			20	
Methylcyclohexane	8.23		"	10.0	0.00	82.3	70-130			20	
Methylene chloride	9.98		"	10.0	0.00	99.8	70-130			20	
n-Butylbenzene	7.51		"	10.0	0.00	75.1	61-138			30	
n-Propylbenzene	8.88		"	10.0	0.00	88.8	66-134			30	
o-Xylene	9.41		"	10.0	0.00	94.1	70-130			20	
p- & m- Xylenes	18.4		"	20.0	0.00	92.1	70-130			20	
p-Isopropyltoluene	13.1		"	10.0	5.51	75.6	64-137			30	
sec-Butylbenzene	8.56		"	10.0	0.00	85.6	53-155			30	
Styrene	9.06		"	10.0	0.00	90.6	70-130			20	
tert-Butyl alcohol (TBA)	31.8		"	50.0	0.00	63.7	10-130			30	
tert-Butylbenzene	8.80		"	10.0	0.00	88.0	65-139			30	
Tetrachloroethylene	5.60		"	10.0	0.00	56.0	70-130	Low Bias		20	
Toluene	9.69		"	10.0	0.00	96.9	70-130			20	
trans-1,2-Dichloroethylene	10.2		"	10.0	0.00	102	70-130			20	
trans-1,3-Dichloropropylene	9.79		"	10.0	0.00	97.9	70-130			20	
Trichloroethylene	9.29		"	10.0	0.00	92.9	70-130			20	
Trichlorofluoromethane	11.2		"	10.0	0.00	112	40-160			20	
Vinyl acetate	8.52		"	10.0	0.00	85.2	10-87			30	
Vinyl Chloride	14.3		"	10.0	0.00	143	70-130	High Bias		20	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.59*		*"*	*10.0*		*95.9*	*70-130*				
Surrogate: SURR: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: SURR: p-Bromofluorobenzene	*11.1*		*"*	*10.0*		*111*	*70-130*				



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 BE90972 - EPA 5030B											
Matrix Spike Dup (BE90972-MSD1)	*Source sample: 19E0591-32 (MW002)							Prepared & Analyzed: 05/16/2019			
1,1,1,2-Tetrachloroethane	9.58		ug/L	10.0	0.00	95.8	45-161		3.18	30	
1,1,1-Trichloroethane	9.85		"	10.0	0.00	98.5	70-130		2.21	20	
1,1,2,2-Tetrachloroethane	10.6		"	10.0	0.00	106	70-130		6.31	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	7.93		"	10.0	0.00	79.3	70-130		11.3	20	
1,1,2-Trichloroethane	9.24		"	10.0	0.00	92.4	70-130		2.46	20	
1,1-Dichloroethane	10.2		"	10.0	0.00	102	70-130		2.50	20	
1,1-Dichloroethylene	10.0		"	10.0	0.00	100	70-130		1.19	20	
1,1-Dichloropropylene	9.03		"	10.0	0.00	90.3	82-134		6.02	30	
1,2,3-Trichlorobenzene	6.44		"	10.0	0.00	64.4	70-130	Low Bias	9.19	20	
1,2,3-Trichloropropane	10.1		"	10.0	0.00	101	74-127		0.786	30	
1,2,4-Trichlorobenzene	6.17		"	10.0	0.00	61.7	70-130	Low Bias	9.13	20	
1,2,4-Trimethylbenzene	7.78		"	10.0	0.00	77.8	72-129		12.0	20	
1,2-Dibromo-3-chloropropane	9.30		"	10.0	0.00	93.0	40-160		0.108	20	
1,2-Dibromoethane	9.50		"	10.0	0.00	95.0	70-130		0.528	20	
1,2-Dichlorobenzene	8.00		"	10.0	0.00	80.0	70-130		6.06	20	
1,2-Dichloroethane	9.99		"	10.0	0.00	99.9	70-130		1.39	20	
1,2-Dichloropropane	9.64		"	10.0	0.00	96.4	70-130		0.929	20	
1,3,5-Trimethylbenzene	8.17		"	10.0	0.00	81.7	69-126		10.0	30	
1,3-Dichlorobenzene	7.65		"	10.0	0.00	76.5	70-130		9.11	20	
1,3-Dichloropropane	9.96		"	10.0	0.00	99.6	77-119		0.402	30	
1,4-Dichlorobenzene	7.77		"	10.0	0.00	77.7	70-130		5.26	20	
1,4-Dioxane	93.1		"	210	0.00	44.3	40-160		57.7	20	Non-dir.
2,2-Dichloropropane	10.2		"	10.0	0.00	102	10-160		3.77	30	
2-Butanone	7.78		"	10.0	0.00	77.8	40-160		3.53	20	
2-Chlorotoluene	8.90		"	10.0	0.00	89.0	70-126		8.60	30	
2-Hexanone	8.49		"	10.0	0.00	84.9	40-160		0.938	20	
4-Chlorotoluene	8.58		"	10.0	0.00	85.8	69-124		7.30	30	
4-Methyl-2-pentanone	9.56		"	10.0	0.00	95.6	40-160		1.58	20	
Acetone	5.80		"	10.0	0.870	49.3	40-160		0.344	20	
Acrolein	9.76		"	10.0	0.00	97.6	10-195		17.9	30	
Acrylonitrile	8.37		"	10.0	0.00	83.7	37-165		0.239	30	
Benzene	10.1		"	10.0	0.00	101	70-130		2.06	20	
Bromobenzene	9.65		"	10.0	0.00	96.5	72-122		5.93	30	
Bromochloromethane	10.4		"	10.0	0.00	104	70-130		0.478	20	
Bromodichloromethane	9.86		"	10.0	0.00	98.6	70-130		1.22	20	
Bromoform	9.26		"	10.0	0.00	92.6	70-130		2.40	20	
Bromomethane	10.6		"	10.0	0.00	106	40-160		17.4	20	
Carbon disulfide	10.6		"	10.0	0.00	106	40-160		1.78	20	
Carbon tetrachloride	9.68		"	10.0	0.00	96.8	70-130		1.44	20	
Chlorobenzene	8.94		"	10.0	0.00	89.4	70-130		3.41	20	
Chloroethane	12.0		"	10.0	0.00	120	40-160		2.79	20	
Chloroform	10.0		"	10.0	0.00	100	70-130		0.399	20	
Chloromethane	12.2		"	10.0	0.00	122	40-160		7.55	20	
cis-1,2-Dichloroethylene	10.2		"	10.0	0.00	102	70-130		2.23	20	
cis-1,3-Dichloropropylene	9.73		"	10.0	0.00	97.3	70-130		0.308	20	
Cyclohexane	8.55		"	10.0	0.00	85.5	70-130		9.15	20	
Dibromochloromethane	9.52		"	10.0	0.00	95.2	70-130		2.90	20	
Dibromomethane	9.13		"	10.0	0.00	91.3	76-120		5.02	30	
Dichlorodifluoromethane	13.0		"	10.0	0.00	130	40-160		6.24	20	
Ethyl Benzene	8.74		"	10.0	0.00	87.4	70-130		7.28	20	

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 BE90972 - EPA 5030B											
Matrix Spike Dup (BE90972-MSD1)	*Source sample: 19E0591-32 (MW002)							Prepared & Analyzed: 05/16/2019			
Hexachlorobutadiene	5.84		ug/L	10.0	0.00	58.4	34-166		16.1	30	
Isopropylbenzene	8.00		"	10.0	0.00	80.0	70-130		9.64	20	
Methyl acetate	8.93		"	10.0	0.00	89.3	70-130		0.447	20	
Methyl tert-butyl ether (MTBE)	10.4		"	10.0	0.00	104	70-130		1.36	20	
Methylcyclohexane	7.01		"	10.0	0.00	70.1	70-130		16.0	20	
Methylene chloride	9.93		"	10.0	0.00	99.3	70-130		0.502	20	
n-Butylbenzene	6.25		"	10.0	0.00	62.5	61-138		18.3	30	
n-Propylbenzene	8.04		"	10.0	0.00	80.4	66-134		9.93	30	
o-Xylene	8.73		"	10.0	0.00	87.3	70-130		7.50	20	
p- & m- Xylenes	17.1		"	20.0	0.00	85.6	70-130		7.32	20	
p-Isopropyltoluene	12.3		"	10.0	5.51	67.5	64-137		6.40	30	
sec-Butylbenzene	7.42		"	10.0	0.00	74.2	53-155		14.3	30	
Styrene	8.58		"	10.0	0.00	85.8	70-130		5.44	20	
tert-Butyl alcohol (TBA)	34.2		"	50.0	0.00	68.5	10-130		7.32	30	
tert-Butylbenzene	7.79		"	10.0	0.00	77.9	65-139		12.2	30	
Tetrachloroethylene	5.07		"	10.0	0.00	50.7	70-130	Low Bias	9.93	20	
Toluene	9.39		"	10.0	0.00	93.9	70-130		3.14	20	
trans-1,2-Dichloroethylene	9.92		"	10.0	0.00	99.2	70-130		2.59	20	
trans-1,3-Dichloropropylene	9.90		"	10.0	0.00	99.0	70-130		1.12	20	
Trichloroethylene	8.81		"	10.0	0.00	88.1	70-130		5.30	20	
Trichlorofluoromethane	10.5		"	10.0	0.00	105	40-160		6.08	20	
Vinyl acetate	8.77		"	10.0	0.00	87.7	10-87	High Bias	2.89	30	
Vinyl Chloride	14.2		"	10.0	0.00	142	70-130	High Bias	0.843	20	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.96*		*"*	*10.0*		*99.6*	*70-130*				
Surrogate: SURR: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*70-130*				
Surrogate: SURR: p-Bromofluorobenzene	*11.1*		*"*	*10.0*		*111*	*70-130*				

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 BE91074 - EPA 5035A											
Blank (BE91074-BLK1)											Prepared & Analyzed: 05/17/2019
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	"								
1,1-Dichloropropylene	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	"								
1,3-Dichloropropane	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2,2-Dichloropropane	ND	0.0050	"								
2-Butanone	ND	0.0050	"								
2-Chlorotoluene	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Chlorotoluene	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	"								
Bromobenzene	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	"								

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 BE91074 - EPA 5035A											
Blank (BE91074-BLK1)											Prepared & Analyzed: 05/17/2019
Hexachlorobutadiene	ND	0.0050	mg/kg wet								
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	0.025	"								
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 acetate	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*48.3*		*ug/L*	*50.0*		*96.6*	*77-125*				
Surrogate: SURR: Toluene-d8	*47.8*		*"*	*50.0*		*95.5*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*55.6*		*"*	*50.0*		*111*	*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 BE91074 - EPA 5035A											
Blank (BE91074-BLK2)											Prepared & Analyzed: 05/17/2019
1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	0.50	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								

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 BE91074 - EPA 5035A											
Blank (BE91074-BLK2)											Prepared & Analyzed: 05/17/2019
Hexachlorobutadiene	ND	0.50	mg/kg wet								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	2.5	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl acetate	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.8*		*ug/L*	*50.0*		*102*	*77-125*				
Surrogate: SURR: Toluene-d8	*48.4*		*"*	*50.0*		*96.7*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*55.1*		*"*	*50.0*		*110*	*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 BE91074 - EPA 5035A											
LCS (BE91074-BS1)							Prepared & Analyzed: 05/17/2019				
1,1,1,2-Tetrachloroethane	49.9		ug/L	50.0		99.8	75-129				
1,1,1-Trichloroethane	51.8		"	50.0		104	71-137				
1,1,2,2-Tetrachloroethane	46.6		"	50.0		93.2	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	52.9		"	50.0		106	58-146				
1,1,2-Trichloroethane	48.3		"	50.0		96.5	83-123				
1,1-Dichloroethane	51.1		"	50.0		102	75-130				
1,1-Dichloroethylene	50.6		"	50.0		101	64-137				
1,1-Dichloropropylene	51.0		"	50.0		102	77-127				
1,2,3-Trichlorobenzene	46.6		"	50.0		93.3	81-140				
1,2,3-Trichloropropane	46.4		"	50.0		92.8	81-126				
1,2,4-Trichlorobenzene	46.0		"	50.0		92.0	80-141				
1,2,4-Trimethylbenzene	44.4		"	50.0		88.7	84-125				
1,2-Dibromo-3-chloropropane	45.5		"	50.0		91.1	74-142				
1,2-Dibromoethane	47.7		"	50.0		95.4	86-123				
1,2-Dichlorobenzene	46.3		"	50.0		92.6	85-122				
1,2-Dichloroethane	53.3		"	50.0		107	71-133				
1,2-Dichloropropane	44.8		"	50.0		89.6	81-122				
1,3,5-Trimethylbenzene	44.8		"	50.0		89.5	82-126				
1,3-Dichlorobenzene	46.6		"	50.0		93.3	84-124				
1,3-Dichloropropane	48.2		"	50.0		96.3	83-123				
1,4-Dichlorobenzene	45.9		"	50.0		91.8	84-124				
1,4-Dioxane	938		"	1050		89.3	10-228				
2,2-Dichloropropane	51.0		"	50.0		102	67-136				
2-Butanone	48.9		"	50.0		97.7	58-147				
2-Chlorotoluene	44.2		"	50.0		88.5	78-127				
2-Hexanone	46.2		"	50.0		92.3	70-139				
4-Chlorotoluene	44.4		"	50.0		88.8	79-125				
4-Methyl-2-pentanone	48.3		"	50.0		96.6	72-132				
Acetone	36.2		"	50.0		72.3	36-155				
Acrolein	62.7		"	50.0		125	10-238				
Acrylonitrile	51.4		"	50.0		103	66-141				
Benzene	52.4		"	50.0		105	77-127				
Bromobenzene	46.5		"	50.0		92.9	77-129				
Bromochloromethane	50.9		"	50.0		102	74-129				
Bromodichloromethane	48.7		"	50.0		97.4	81-124				
Bromoform	51.7		"	50.0		103	80-136				
Bromomethane	52.4		"	50.0		105	32-177				
Carbon disulfide	55.6		"	50.0		111	10-136				
Carbon tetrachloride	53.2		"	50.0		106	66-143				
Chlorobenzene	48.0		"	50.0		96.0	86-120				
Chloroethane	48.9		"	50.0		97.8	51-142				
Chloroform	51.8		"	50.0		104	76-131				
Chloromethane	57.5		"	50.0		115	49-132				
cis-1,2-Dichloroethylene	52.4		"	50.0		105	74-132				
cis-1,3-Dichloropropylene	47.0		"	50.0		93.9	81-129				
Cyclohexane	63.0		"	50.0		126	70-130				
Dibromochloromethane	52.1		"	50.0		104	10-200				
Dibromomethane	49.2		"	50.0		98.4	83-124				
Dichlorodifluoromethane	64.0		"	50.0		128	28-158				
Ethyl Benzene	46.8		"	50.0		93.6	84-125				

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 BE91074 - EPA 5035A											
LCS (BE91074-BS1)								Prepared & Analyzed: 05/17/2019			
Hexachlorobutadiene	47.4		ug/L	50.0		94.8	83-133				
Isopropylbenzene	44.8		"	50.0		89.7	81-127				
Methyl acetate	46.2		"	50.0		92.5	41-143				
Methyl tert-butyl ether (MTBE)	51.3		"	50.0		103	74-131				
Methylcyclohexane	47.9		"	50.0		95.7	70-130				
Methylene chloride	51.3		"	50.0		103	57-141				
n-Butylbenzene	45.4		"	50.0		90.7	80-130				
n-Propylbenzene	44.5		"	50.0		89.0	74-136				
o-Xylene	46.4		"	50.0		92.7	83-123				
p- & m- Xylenes	90.8		"	100		90.8	82-128				
p-Isopropyltoluene	46.5		"	50.0		93.0	85-125				
sec-Butylbenzene	48.0		"	50.0		95.9	83-125				
Styrene	46.5		"	50.0		93.0	86-126				
tert-Butyl alcohol (TBA)	255		"	250		102	70-130				
tert-Butylbenzene	39.3		"	50.0		78.6	80-127	Low Bias			
Tetrachloroethylene	47.5		"	50.0		94.9	80-129				
Toluene	47.5		"	50.0		95.0	85-121				
trans-1,2-Dichloroethylene	51.1		"	50.0		102	72-132				
trans-1,3-Dichloropropylene	46.7		"	50.0		93.4	78-132				
Trichloroethylene	46.4		"	50.0		92.8	84-123				
Trichlorofluoromethane	59.5		"	50.0		119	62-140				
Vinyl acetate	37.3		"	50.0		74.6	67-136				
Vinyl Chloride	64.1		"	50.0		128	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*49.9*		*"*	*50.0*		*99.8*	*77-125*				
Surrogate: SURR: Toluene-d8	*47.8*		*"*	*50.0*		*95.5*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*47.5*		*"*	*50.0*		*94.9*	*76-130*				
LCS Dup (BE91074-BSD1)								Prepared & Analyzed: 05/17/2019			
1,1,1,2-Tetrachloroethane	47.4		ug/L	50.0		94.9	75-129		5.01	30	
1,1,1-Trichloroethane	52.0		"	50.0		104	71-137		0.251	30	
1,1,2,2-Tetrachloroethane	47.8		"	50.0		95.6	79-129		2.46	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	52.6		"	50.0		105	58-146		0.569	30	
1,1,2-Trichloroethane	48.1		"	50.0		96.2	83-123		0.353	30	
1,1-Dichloroethane	51.0		"	50.0		102	75-130		0.157	30	
1,1-Dichloroethylene	49.6		"	50.0		99.2	64-137		2.04	30	
1,1-Dichloropropylene	50.5		"	50.0		101	77-127		0.945	30	
1,2,3-Trichlorobenzene	47.1		"	50.0		94.1	81-140		0.896	30	
1,2,3-Trichloropropane	48.3		"	50.0		96.7	81-126		4.07	30	
1,2,4-Trichlorobenzene	45.7		"	50.0		91.5	80-141		0.589	30	
1,2,4-Trimethylbenzene	44.1		"	50.0		88.1	84-125		0.633	30	
1,2-Dibromo-3-chloropropane	49.8		"	50.0		99.5	74-142		8.88	30	
1,2-Dibromoethane	48.5		"	50.0		97.0	86-123		1.73	30	
1,2-Dichlorobenzene	46.8		"	50.0		93.7	85-122		1.14	30	
1,2-Dichloroethane	55.3		"	50.0		111	71-133		3.76	30	
1,2-Dichloropropane	46.2		"	50.0		92.4	81-122		3.05	30	
1,3,5-Trimethylbenzene	44.0		"	50.0		88.0	82-126		1.71	30	
1,3-Dichlorobenzene	46.7		"	50.0		93.3	84-124		0.0429	30	
1,3-Dichloropropane	48.5		"	50.0		97.0	83-123		0.703	30	
1,4-Dichlorobenzene	44.9		"	50.0		89.7	84-124		2.27	30	
1,4-Dioxane	976		"	1050		92.9	10-228		3.99	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

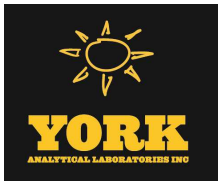
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE91074 - EPA 5035A											
LCS Dup (BE91074-BSD1)							Prepared & Analyzed: 05/17/2019				
2,2-Dichloropropane	52.0		ug/L	50.0		104	67-136		1.94	30	
2-Butanone	49.8		"	50.0		99.6	58-147		1.95	30	
2-Chlorotoluene	43.6		"	50.0		87.2	78-127		1.41	30	
2-Hexanone	47.9		"	50.0		95.7	70-139		3.64	30	
4-Chlorotoluene	43.1		"	50.0		86.2	79-125		2.99	30	
4-Methyl-2-pentanone	50.3		"	50.0		101	72-132		4.02	30	
Acetone	39.4		"	50.0		78.9	36-155		8.67	30	
Acrolein	55.6		"	50.0		111	10-238		12.0	30	
Acrylonitrile	53.6		"	50.0		107	66-141		4.15	30	
Benzene	52.1		"	50.0		104	77-127		0.612	30	
Bromobenzene	45.3		"	50.0		90.7	77-129		2.46	30	
Bromochloromethane	53.5		"	50.0		107	74-129		4.94	30	
Bromodichloromethane	49.4		"	50.0		98.8	81-124		1.47	30	
Bromoform	52.3		"	50.0		105	80-136		1.27	30	
Bromomethane	44.0		"	50.0		88.0	32-177		17.5	30	
Carbon disulfide	53.8		"	50.0		108	10-136		3.35	30	
Carbon tetrachloride	54.2		"	50.0		108	66-143		1.92	30	
Chlorobenzene	47.0		"	50.0		94.0	86-120		2.08	30	
Chloroethane	49.3		"	50.0		98.5	51-142		0.754	30	
Chloroform	52.4		"	50.0		105	76-131		1.09	30	
Chloromethane	55.0		"	50.0		110	49-132		4.32	30	
cis-1,2-Dichloroethylene	51.8		"	50.0		104	74-132		1.32	30	
cis-1,3-Dichloropropylene	47.5		"	50.0		94.9	81-129		1.08	30	
Cyclohexane	63.5		"	50.0		127	70-130		0.854	30	
Dibromochloromethane	52.8		"	50.0		106	10-200		1.32	30	
Dibromomethane	48.8		"	50.0		97.6	83-124		0.857	30	
Dichlorodifluoromethane	55.0		"	50.0		110	28-158		15.3	30	
Ethyl Benzene	45.5		"	50.0		91.1	84-125		2.77	30	
Hexachlorobutadiene	48.4		"	50.0		96.9	83-133		2.13	30	
Isopropylbenzene	44.8		"	50.0		89.5	81-127		0.134	30	
Methyl acetate	47.5		"	50.0		95.0	41-143		2.69	30	
Methyl tert-butyl ether (MTBE)	53.2		"	50.0		106	74-131		3.52	30	
Methylcyclohexane	47.3		"	50.0		94.6	70-130		1.22	30	
Methylene chloride	50.1		"	50.0		100	57-141		2.48	30	
n-Butylbenzene	45.0		"	50.0		90.1	80-130		0.686	30	
n-Propylbenzene	44.2		"	50.0		88.5	74-136		0.586	30	
o-Xylene	45.0		"	50.0		90.0	83-123		2.95	30	
p- & m- Xylenes	89.8		"	100		89.8	82-128		1.09	30	
p-Isopropyltoluene	46.0		"	50.0		92.0	85-125		1.08	30	
sec-Butylbenzene	48.0		"	50.0		95.9	83-125		0.0417	30	
Styrene	45.6		"	50.0		91.2	86-126		1.93	30	
tert-Butyl alcohol (TBA)	265		"	250		106	70-130		4.05	30	
tert-Butylbenzene	39.1		"	50.0		78.2	80-127	Low Bias	0.536	30	
Tetrachloroethylene	45.9		"	50.0		91.8	80-129		3.32	30	
Toluene	47.2		"	50.0		94.3	85-121		0.782	30	
trans-1,2-Dichloroethylene	50.4		"	50.0		101	72-132		1.30	30	
trans-1,3-Dichloropropylene	48.0		"	50.0		96.0	78-132		2.77	30	
Trichloroethylene	47.3		"	50.0		94.6	84-123		1.86	30	
Trichlorofluoromethane	60.7		"	50.0		121	62-140		2.08	30	
Vinyl acetate	40.4		"	50.0		80.7	67-136		7.85	30	
Vinyl Chloride	46.7		"	50.0		93.4	52-130		31.4	30	Non-dir.

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 BE91074 - EPA 5035A											
LCS Dup (BE91074-BSD1)											Prepared & Analyzed: 05/17/2019
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.5*		*ug/L*	*50.0*		*101*	*77-125*				
Surrogate: SURR: Toluene-d8	*47.5*		*"*	*50.0*		*95.0*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*47.7*		*"*	*50.0*		*95.5*	*76-130*				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

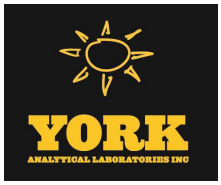
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE91020 - EPA 3510C											
LCS (BE91020-BS2)								Prepared: 05/16/2019 Analyzed: 05/17/2019			
1,1-Biphenyl	ND	5.00	ug/L				33-95				
1,2,4,5-Tetrachlorobenzene	ND	5.00	"				26-120				
1,2,4-Trichlorobenzene	ND	5.00	"	1.00			20-118	Low Bias			
1,2-Dichlorobenzene	ND	5.00	"	1.00			29-111	Low Bias			
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"	1.00			16-141	Low Bias			
1,3-Dichlorobenzene	ND	5.00	"	1.00			23-117	Low Bias			
1,4-Dichlorobenzene	ND	5.00	"	1.00			30-105	Low Bias			
2,3,4,6-Tetrachlorophenol	ND	5.00	"				30-130				
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	0.750	0.0500	"	1.00		75.0	25-116				
Acenaphthylene	0.730	0.0500	"	1.00		73.0	26-116				
Acetophenone	ND	5.00	"				25-110				
Aniline	ND	5.00	"	1.00			10-117	Low Bias			
Anthracene	0.860	0.0500	"	1.00		86.0	25-123				
Benzaldehyde	ND	5.00	"				29-117				
Benzo(a)anthracene	0.840	0.0500	"	1.00		84.0	33-125				
Benzo(a)pyrene	0.910	0.0500	"	1.00		91.0	32-132				
Benzo(b)fluoranthene	0.890	0.0500	"	1.00		89.0	22-137				
Benzo(g,h,i)perylene	1.13	0.0500	"	1.00		113	10-138				
Benzo(k)fluoranthene	0.870	0.0500	"	1.00		87.0	20-137				
Benzoic acid	ND	50.0	"				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			
Bis(2-ethylhexyl)phthalate	1.00	0.500	"	1.00		100	10-189				
Caprolactam	ND	5.00	"				10-137				
Carbazole	ND	5.00	"	1.00			42-126	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
Batch BE91020 - EPA 3510C											
LCS (BE91020-BS2)								Prepared: 05/16/2019 Analyzed: 05/17/2019			
Chrysene	0.860	0.0500	ug/L	1.00		86.0	32-124				
Dibenzo(a,h)anthracene	1.17	0.0500	"	1.00		117	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			
Fluoranthene	1.00	0.0500	"	1.00		100	32-121				
Fluorene	0.820	0.0500	"	1.00		82.0	28-118				
Hexachlorobenzene	ND	0.0200	"	1.00			23-124	Low Bias			
Hexachlorobutadiene	ND	0.500	"	1.00			15-123	Low Bias			
Hexachlorocyclopentadiene	ND	10.0	"	1.00			10-130	Low Bias			
Hexachloroethane	ND	0.500	"	1.00			18-115	Low Bias			
Indeno(1,2,3-cd)pyrene	1.13	0.0500	"	1.00		113	15-135				
Isophorone	ND	5.00	"	1.00			25-127	Low Bias			
Naphthalene	0.900	0.0500	"	1.00		90.0	18-120				
Nitrobenzene	ND	0.250	"	1.00			21-121	Low Bias			
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	0.520	0.250	"	1.00		52.0	10-156				
Phenanthrene	0.860	0.0500	"	1.00		86.0	24-127				
Phenol	ND	5.00	"	1.00			10-110	Low Bias			
Pyrene	0.730	0.0500	"	1.00		73.0	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

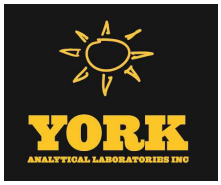
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE91020 - EPA 3510C											
Matrix Spike (BE91020-MS1)	*Source sample: 19E0591-32 (MW002)							Prepared: 05/16/2019 Analyzed: 05/23/2019			
1,1-Biphenyl	42.6	11.1	ug/L	27.8	ND	153	26-79	High Bias			
1,2,4,5-Tetrachlorobenzene	65.8	11.1	"	27.8	ND	237	33-90	High Bias			
1,2,4-Trichlorobenzene	46.8	11.1	"	27.8	ND	169	31-88	High Bias			
1,2-Dichlorobenzene	40.9	11.1	"	27.8	ND	147	24-93	High Bias			
1,2-Diphenylhydrazine (as Azobenzene)	43.5	11.1	"	27.8	ND	157	21-107	High Bias			
1,3-Dichlorobenzene	40.7	11.1	"	27.8	ND	146	28-86	High Bias			
1,4-Dichlorobenzene	42.6	11.1	"	27.8	ND	153	25-85	High Bias			
2,3,4,6-Tetrachlorophenol	37.5	11.1	"	27.8	ND	135	30-130	High Bias			
2,4,5-Trichlorophenol	40.5	11.1	"	27.8	ND	146	43-96	High Bias			
2,4,6-Trichlorophenol	47.7	11.1	"	27.8	ND	172	46-94	High Bias			
2,4-Dichlorophenol	47.9	11.1	"	27.8	ND	172	26-101	High Bias			
2,4-Dimethylphenol	43.6	11.1	"	27.8	ND	157	10-104	High Bias			
2,4-Dinitrophenol	17.8	11.1	"	27.8	ND	64.0	10-146				
2,4-Dinitrotoluene	43.4	11.1	"	27.8	ND	156	30-108	High Bias			
2,6-Dinitrotoluene	47.1	11.1	"	27.8	ND	169	38-98	High Bias			
2-Chloronaphthalene	41.9	11.1	"	27.8	ND	151	30-89	High Bias			
2-Chlorophenol	43.9	11.1	"	27.8	ND	158	24-98	High Bias			
2-Methylnaphthalene	46.0	11.1	"	27.8	ND	166	10-112	High Bias			
2-Methylphenol	31.8	11.1	"	27.8	ND	115	10-134				
2-Nitroaniline	43.2	11.1	"	27.8	ND	155	25-110	High Bias			
2-Nitrophenol	50.8	11.1	"	27.8	ND	183	10-139	High Bias			
3- & 4-Methylphenols	26.8	11.1	"	27.8	ND	96.4	10-91	High Bias			
3,3-Dichlorobenzidine	41.0	11.1	"	27.8	ND	148	10-140	High Bias			
3-Nitroaniline	31.6	11.1	"	27.8	ND	114	22-111	High Bias			
4,6-Dinitro-2-methylphenol	18.8	11.1	"	27.8	ND	67.6	10-140				
4-Bromophenyl phenyl ether	46.2	11.1	"	27.8	ND	166	30-108	High Bias			
4-Chloro-3-methylphenol	45.9	11.1	"	27.8	ND	165	11-109	High Bias			
4-Chloroaniline	29.3	11.1	"	27.8	ND	106	10-116				
4-Chlorophenyl phenyl ether	44.9	11.1	"	27.8	ND	162	39-85	High Bias			
4-Nitroaniline	42.6	11.1	"	27.8	ND	153	11-132	High Bias			
4-Nitrophenol	22.6	11.1	"	27.8	ND	81.3	10-82				
Acenaphthene	37.8	0.111	"	27.8	ND	136	31-90	High Bias			
Acenaphthylene	38.4	0.111	"	27.8	ND	138	32-83	High Bias			
Acetophenone	43.4	11.1	"	27.8	ND	156	14-102	High Bias			
Aniline	19.6	11.1	"	27.8	ND	70.7	10-80				
Anthracene	49.5	0.111	"	27.8	ND	178	35-92	High Bias			
Benzaldehyde	59.9	11.1	"	27.8	ND	216	13-87	High Bias			
Benzo(a)anthracene	49.1	0.111	"	27.8	0.300	176	17-117	High Bias			
Benzo(a)pyrene	53.2	0.111	"	27.8	0.344	190	42-110	High Bias			
Benzo(b)fluoranthene	52.6	0.111	"	27.8	0.289	188	18-135	High Bias			
Benzo(g,h,i)perylene	51.4	0.111	"	27.8	0.222	184	10-125	High Bias			
Benzo(k)fluoranthene	47.3	0.111	"	27.8	0.267	169	33-107	High Bias			
Benzoic acid	ND	111	"	31.7	ND		10-162	Low Bias			
Benzyl alcohol	31.8	11.1	"	27.8	ND	114	10-102	High Bias			
Benzyl butyl phthalate	58.4	11.1	"	27.8	ND	210	10-133	High Bias			
Bis(2-chloroethoxy)methane	47.8	11.1	"	27.8	ND	172	18-105	High Bias			
Bis(2-chloroethyl)ether	47.6	11.1	"	27.8	ND	171	10-108	High Bias			
Bis(2-chloroisopropyl)ether	55.7	11.1	"	27.8	ND	201	13-116	High Bias			
Bis(2-ethylhexyl)phthalate	61.7	1.11	"	27.8	ND	222	10-119	High Bias			
Caprolactam	6.13	11.1	"	27.8	ND	22.1	10-75				
Carbazole	50.1	11.1	"	27.8	ND	180	36-108	High 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
Batch BE91020 - EPA 3510C											
Matrix Spike (BE91020-MS1)	*Source sample: 19E0591-32 (MW002)							Prepared: 05/16/2019 Analyzed: 05/23/2019			
Chrysene	47.3	0.111	ug/L	27.8	0.311	169	23-111	High Bias			
Dibenzo(a,h)anthracene	52.4	0.111	"	27.8	ND	189	10-118	High Bias			
Dibenzofuran	40.5	11.1	"	27.8	ND	146	34-92	High Bias			
Diethyl phthalate	40.8	11.1	"	27.8	ND	147	33-98	High Bias			
Dimethyl phthalate	42.0	11.1	"	27.8	ND	151	18-116	High Bias			
Di-n-butyl phthalate	53.7	11.1	"	27.8	ND	193	25-97	High Bias			
Di-n-octyl phthalate	70.0	11.1	"	27.8	ND	252	10-137	High Bias			
Fluoranthene	50.5	0.111	"	27.8	0.611	180	35-98	High Bias			
Fluorene	40.6	0.111	"	27.8	ND	146	37-87	High Bias			
Hexachlorobenzene	44.2	0.0444	"	27.8	ND	159	16-106	High Bias			
Hexachlorobutadiene	49.0	1.11	"	27.8	ND	176	10-120	High Bias			
Hexachlorocyclopentadiene	14.2	22.2	"	27.8	ND	51.0	10-79				
Hexachloroethane	38.9	1.11	"	27.8	ND	140	10-108	High Bias			
Indeno(1,2,3-cd)pyrene	51.8	0.111	"	27.8	0.200	186	10-120	High Bias			
Isophorone	50.2	11.1	"	27.8	ND	181	25-103	High Bias			
Naphthalene	45.3	0.111	"	27.8	0.122	163	27-92	High Bias			
Nitrobenzene	50.4	0.556	"	27.8	ND	181	10-127	High Bias			
N-Nitrosodimethylamine	23.3	1.11	"	27.8	ND	84.0	10-81	High Bias			
N-nitroso-di-n-propylamine	45.3	11.1	"	27.8	ND	163	19-115	High Bias			
N-Nitrosodiphenylamine	47.8	11.1	"	27.8	ND	172	31-112	High Bias			
Pentachlorophenol	44.8	0.556	"	27.8	ND	161	10-149	High Bias			
Phenanthrene	48.9	0.111	"	27.8	0.289	175	34-94	High Bias			
Phenol	19.9	11.1	"	27.8	ND	71.8	10-61	High Bias			
Pyrene	51.3	0.111	"	27.8	0.744	182	25-122	High Bias			
Pyridine	21.4	11.1	"	28.1	ND	76.4	10-78				
Surrogate: SURR: 2-Fluorophenol	*55.6*		*"*	*55.6*		*100*	*19.7-63.1*				
Surrogate: SURR: Phenol-d5	*32.1*		*"*	*55.6*		*57.8*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*48.2*		*"*	*27.8*		*173*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*40.8*		*"*	*27.8*		*147*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*76.3*		*"*	*55.6*		*137*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*45.9*		*"*	*27.8*		*165*	*30.7-106*				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

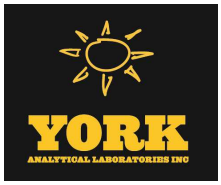
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE91020 - EPA 3510C											
Matrix Spike Dup (BE91020-MSD1)	*Source sample: 19E0591-32 (MW002)								Prepared: 05/16/2019 Analyzed: 05/23/2019		
1,1-Biphenyl	40.6	11.4	ug/L	28.6	ND	142	26-79	High Bias	4.72	25	
1,2,4,5-Tetrachlorobenzene	60.6	11.4	"	28.6	ND	212	33-90	High Bias	8.27	25	
1,2,4-Trichlorobenzene	43.8	11.4	"	28.6	ND	153	31-88	High Bias	6.63	25	
1,2-Dichlorobenzene	38.7	11.4	"	28.6	ND	135	24-93	High Bias	5.68	25	
1,2-Diphenylhydrazine (as Azobenzene)	40.9	11.4	"	28.6	ND	143	21-107	High Bias	6.04	25	
1,3-Dichlorobenzene	38.3	11.4	"	28.6	ND	134	28-86	High Bias	5.97	25	
1,4-Dichlorobenzene	39.4	11.4	"	28.6	ND	138	25-85	High Bias	7.73	25	
2,3,4,6-Tetrachlorophenol	36.1	11.4	"	28.6	ND	126	30-130		3.92	25	
2,4,5-Trichlorophenol	40.5	11.4	"	28.6	ND	142	43-96	High Bias	0.0768	25	
2,4,6-Trichlorophenol	45.3	11.4	"	28.6	ND	159	46-94	High Bias	5.22	25	
2,4-Dichlorophenol	45.7	11.4	"	28.6	ND	160	26-101	High Bias	4.70	25	
2,4-Dimethylphenol	40.6	11.4	"	28.6	ND	142	10-104	High Bias	7.13	25	
2,4-Dinitrophenol	21.9	11.4	"	28.6	ND	76.8	10-146		21.0	25	
2,4-Dinitrotoluene	42.9	11.4	"	28.6	ND	150	30-108	High Bias	0.994	25	
2,6-Dinitrotoluene	44.5	11.4	"	28.6	ND	156	38-98	High Bias	5.55	25	
2-Chloronaphthalene	39.7	11.4	"	28.6	ND	139	30-89	High Bias	5.30	25	
2-Chlorophenol	41.4	11.4	"	28.6	ND	145	24-98	High Bias	5.69	25	
2-Methylnaphthalene	43.8	11.4	"	28.6	ND	153	10-112	High Bias	4.81	25	
2-Methylphenol	31.8	11.4	"	28.6	ND	111	10-134		0.0139	25	
2-Nitroaniline	41.8	11.4	"	28.6	ND	146	25-110	High Bias	3.12	25	
2-Nitrophenol	50.2	11.4	"	28.6	ND	176	10-139	High Bias	1.24	25	
3- & 4-Methylphenols	26.0	11.4	"	28.6	ND	91.1	10-91	High Bias	2.82	25	
3,3-Dichlorobenzidine	40.4	11.4	"	28.6	ND	141	10-140	High Bias	1.61	25	
3-Nitroaniline	30.5	11.4	"	28.6	ND	107	22-111		3.65	25	
4,6-Dinitro-2-methylphenol	22.2	11.4	"	28.6	ND	77.6	10-140		16.6	25	
4-Bromophenyl phenyl ether	45.0	11.4	"	28.6	ND	157	30-108	High Bias	2.77	25	
4-Chloro-3-methylphenol	44.3	11.4	"	28.6	ND	155	11-109	High Bias	3.58	25	
4-Chloroaniline	28.0	11.4	"	28.6	ND	98.2	10-116		4.41	25	
4-Chlorophenyl phenyl ether	43.8	11.4	"	28.6	ND	153	39-85	High Bias	2.57	25	
4-Nitroaniline	42.4	11.4	"	28.6	ND	149	11-132	High Bias	0.363	25	
4-Nitrophenol	24.6	11.4	"	28.6	ND	86.0	10-82	High Bias	8.46	25	
Acenaphthene	36.5	0.114	"	28.6	ND	128	31-90	High Bias	3.55	25	
Acenaphthylene	36.0	0.114	"	28.6	ND	126	32-83	High Bias	6.27	25	
Acetophenone	40.8	11.4	"	28.6	ND	143	14-102	High Bias	6.22	25	
Aniline	17.4	11.4	"	28.6	ND	60.8	10-80		12.3	25	
Anthracene	49.1	0.114	"	28.6	ND	172	35-92	High Bias	0.933	25	
Benzaldehyde	55.7	11.4	"	28.6	ND	195	13-87	High Bias	7.32	25	
Benzo(a)anthracene	50.2	0.114	"	28.6	0.300	175	17-117	High Bias	2.23	25	
Benzo(a)pyrene	55.4	0.114	"	28.6	0.344	193	42-110	High Bias	3.90	25	
Benzo(b)fluoranthene	54.1	0.114	"	28.6	0.289	188	18-135	High Bias	2.90	25	
Benzo(g,h,i)perylene	53.6	0.114	"	28.6	0.222	187	10-125	High Bias	4.02	25	
Benzo(k)fluoranthene	49.5	0.114	"	28.6	0.267	172	33-107	High Bias	4.68	25	
Benzoic acid	ND	114	"	32.6	ND		10-162	Low Bias		25	
Benzyl alcohol	32.2	11.4	"	28.6	ND	113	10-102	High Bias	1.13	25	
Benzyl butyl phthalate	59.5	11.4	"	28.6	ND	208	10-133	High Bias	1.71	25	
Bis(2-chloroethoxy)methane	44.5	11.4	"	28.6	ND	156	18-105	High Bias	7.00	25	
Bis(2-chloroethyl)ether	44.1	11.4	"	28.6	ND	154	10-108	High Bias	7.55	25	
Bis(2-chloroisopropyl)ether	53.3	11.4	"	28.6	ND	187	13-116	High Bias	4.33	25	
Bis(2-ethylhexyl)phthalate	64.0	1.14	"	28.6	ND	224	10-119	High Bias	3.61	25	
Caprolactam	6.79	11.4	"	28.6	ND	23.8	10-75		10.1	25	
Carbazole	50.4	11.4	"	28.6	ND	177	36-108	High Bias	0.754	25	

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 BE91020 - EPA 3510C											
Matrix Spike Dup (BE91020-MSD1)	*Source sample: 19E0591-32 (MW002)							Prepared: 05/16/2019 Analyzed: 05/23/2019			
Chrysene	47.6	0.114	ug/L	28.6	0.311	165	23-111	High Bias	0.490	25	
Dibenzo(a,h)anthracene	56.6	0.114	"	28.6	ND	198	10-118	High Bias	7.73	25	
Dibenzofuran	38.6	11.4	"	28.6	ND	135	34-92	High Bias	4.71	25	
Diethyl phthalate	40.7	11.4	"	28.6	ND	142	33-98	High Bias	0.282	25	
Dimethyl phthalate	41.1	11.4	"	28.6	ND	144	18-116	High Bias	2.23	25	
Di-n-butyl phthalate	55.8	11.4	"	28.6	ND	195	25-97	High Bias	3.85	25	
Di-n-octyl phthalate	73.8	11.4	"	28.6	ND	258	10-137	High Bias	5.26	25	
Fluoranthene	52.0	0.114	"	28.6	0.611	180	35-98	High Bias	2.77	25	
Fluorene	39.7	0.114	"	28.6	ND	139	37-87	High Bias	2.35	25	
Hexachlorobenzene	43.1	0.0457	"	28.6	ND	151	16-106	High Bias	2.66	25	
Hexachlorobutadiene	45.2	1.14	"	28.6	ND	158	10-120	High Bias	8.04	25	
Hexachlorocyclopentadiene	12.0	22.9	"	28.6	ND	42.1	10-79		16.4	25	
Hexachloroethane	36.7	1.14	"	28.6	ND	128	10-108	High Bias	5.77	25	
Indeno(1,2,3-cd)pyrene	54.4	0.114	"	28.6	0.200	190	10-120	High Bias	4.85	25	
Isophorone	48.3	11.4	"	28.6	ND	169	25-103	High Bias	3.82	25	
Naphthalene	42.4	0.114	"	28.6	0.122	148	27-92	High Bias	6.58	25	
Nitrobenzene	47.8	0.571	"	28.6	ND	167	10-127	High Bias	5.31	25	
N-Nitrosodimethylamine	25.6	1.14	"	28.6	ND	89.6	10-81	High Bias	9.26	25	
N-nitroso-di-n-propylamine	42.9	11.4	"	28.6	ND	150	19-115	High Bias	5.31	25	
N-Nitrosodiphenylamine	44.9	11.4	"	28.6	ND	157	31-112	High Bias	6.37	25	
Pentachlorophenol	44.0	0.571	"	28.6	ND	154	10-149	High Bias	1.70	25	
Phenanthrene	48.4	0.114	"	28.6	0.289	168	34-94	High Bias	1.08	25	
Phenol	20.0	11.4	"	28.6	ND	69.9	10-61	High Bias	0.220	25	
Pyrene	49.8	0.114	"	28.6	0.744	172	25-122	High Bias	2.93	25	
Pyridine	15.5	11.4	"	28.9	ND	53.9	10-78		31.9	25	Non-dir.
Surrogate: SURR: 2-Fluorophenol	*53.0*		"	*57.1*		*92.7*	*19.7-63.1*				
Surrogate: SURR: Phenol-d5	*32.7*		"	*57.1*		*57.2*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*46.7*		"	*28.6*		*163*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*39.1*		"	*28.6*		*137*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*78.2*		"	*57.1*		*137*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*46.8*		"	*28.6*		*164*	*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 BE91142 - EPA 3550C											
LCS (BE91142-BS1)								Prepared: 05/20/2019 Analyzed: 05/22/2019			
1,1-Biphenyl	0.613	0.0416	mg/kg wet	0.831		73.8	18-111				
1,2,4,5-Tetrachlorobenzene	0.654	0.0830	"	0.831		78.8	21-131				
1,2,4-Trichlorobenzene	0.561	0.0416	"	0.831		67.6	10-140				
1,2-Dichlorobenzene	0.556	0.0416	"	0.831		67.0	34-108				
1,2-Diphenylhydrazine (as Azobenzene)	0.585	0.0416	"	0.831		70.5	17-137				
1,3-Dichlorobenzene	0.544	0.0416	"	0.831		65.5	33-110				
1,4-Dichlorobenzene	0.557	0.0416	"	0.831		67.0	32-104				
2,3,4,6-Tetrachlorophenol	0.547	0.0830	"	0.831		65.9	30-130				
2,4,5-Trichlorophenol	0.548	0.0416	"	0.831		66.0	27-118				
2,4,6-Trichlorophenol	0.606	0.0416	"	0.831		73.0	31-120				
2,4-Dichlorophenol	0.609	0.0416	"	0.831		73.3	20-127				
2,4-Dimethylphenol	0.609	0.0416	"	0.831		73.3	14-132				
2,4-Dinitrophenol	0.711	0.0830	"	0.831		85.6	10-171				
2,4-Dinitrotoluene	0.640	0.0416	"	0.831		77.0	34-131				
2,6-Dinitrotoluene	0.673	0.0416	"	0.831		81.0	31-128				
2-Chloronaphthalene	0.574	0.0416	"	0.831		69.1	31-117				
2-Chlorophenol	0.594	0.0416	"	0.831		71.5	33-113				
2-Methylnaphthalene	0.613	0.0416	"	0.831		73.8	12-138				
2-Methylphenol	0.519	0.0416	"	0.831		62.5	10-136				
2-Nitroaniline	0.669	0.0830	"	0.831		80.6	27-132				
2-Nitrophenol	0.679	0.0416	"	0.831		81.8	17-129				
3- & 4-Methylphenols	0.467	0.0416	"	0.831		56.2	29-103				
3,3-Dichlorobenzidine	0.731	0.0416	"	0.831		88.0	22-149				
3-Nitroaniline	0.581	0.0830	"	0.831		69.9	20-133				
4,6-Dinitro-2-methylphenol	0.732	0.0830	"	0.831		88.2	10-143				
4-Bromophenyl phenyl ether	0.617	0.0416	"	0.831		74.2	29-120				
4-Chloro-3-methylphenol	0.618	0.0416	"	0.831		74.4	24-129				
4-Chloroaniline	0.502	0.0416	"	0.831		60.4	10-132				
4-Chlorophenyl phenyl ether	0.581	0.0416	"	0.831		70.0	27-124				
4-Nitroaniline	0.644	0.0830	"	0.831		77.5	16-128				
4-Nitrophenol	0.611	0.0830	"	0.831		73.6	10-141				
Acenaphthene	0.560	0.0416	"	0.831		67.5	30-121				
Acenaphthylene	0.579	0.0416	"	0.831		69.7	30-115				
Acetophenone	0.570	0.0416	"	0.831		68.6	20-112				
Aniline	0.548	0.166	"	0.831		66.0	10-119				
Anthracene	0.614	0.0416	"	0.831		74.0	34-118				
Atrazine	0.699	0.0416	"	0.831		84.2	26-112				
Benzaldehyde	0.728	0.0416	"	0.831		87.6	21-100				
Benzo(a)anthracene	0.614	0.0416	"	0.831		73.9	32-122				
Benzo(a)pyrene	0.650	0.0416	"	0.831		78.3	29-133				
Benzo(b)fluoranthene	0.639	0.0416	"	0.831		77.0	25-133				
Benzo(g,h,i)perylene	0.642	0.0416	"	0.831		77.3	10-143				
Benzo(k)fluoranthene	0.574	0.0416	"	0.831		69.1	25-128				
Benzoic acid	0.415	0.0416	"	0.947		43.8	10-140				
Benzyl alcohol	0.651	0.0416	"	0.831		78.4	30-115				
Benzyl butyl phthalate	0.764	0.0416	"	0.831		92.0	26-126				
Bis(2-chloroethoxy)methane	0.601	0.0416	"	0.831		72.4	19-132				
Bis(2-chloroethyl)ether	0.564	0.0416	"	0.831		67.9	19-125				
Bis(2-chloroisopropyl)ether	0.656	0.0416	"	0.831		79.0	20-135				
Bis(2-ethylhexyl)phthalate	0.741	0.0416	"	0.831		89.2	10-155				
Caprolactam	0.686	0.0830	"	0.831		82.6	10-127				

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 BE91142 - EPA 3550C											
LCS (BE91142-BS1)											
Prepared: 05/20/2019 Analyzed: 05/22/2019											
Carbazole	0.611	0.0416	mg/kg wet	0.831		73.6	35-123				
Chrysene	0.578	0.0416	"	0.831		69.6	32-123				
Dibenzo(a,h)anthracene	0.641	0.0416	"	0.831		77.2	10-136				
Dibenzofuran	0.582	0.0416	"	0.831		70.0	29-121				
Diethyl phthalate	0.605	0.0416	"	0.831		72.8	34-116				
Dimethyl phthalate	0.594	0.0416	"	0.831		71.6	35-124				
Di-n-butyl phthalate	0.664	0.0416	"	0.831		80.0	31-116				
Di-n-octyl phthalate	0.869	0.0416	"	0.831		105	26-136				
Fluoranthene	0.635	0.0416	"	0.831		76.4	33-122				
Fluorene	0.579	0.0416	"	0.831		69.7	29-123				
Hexachlorobenzene	0.579	0.0416	"	0.831		69.7	21-124				
Hexachlorobutadiene	0.565	0.0416	"	0.831		68.0	10-149				
Hexachlorocyclopentadiene	0.629	0.0416	"	0.831		75.7	10-129				
Hexachloroethane	0.568	0.0416	"	0.831		68.4	28-108				
Indeno(1,2,3-cd)pyrene	0.669	0.0416	"	0.831		80.6	10-135				
Isophorone	0.612	0.0416	"	0.831		73.7	20-132				
Naphthalene	0.589	0.0416	"	0.831		70.9	23-124				
Nitrobenzene	0.584	0.0416	"	0.831		70.4	13-132				
N-Nitrosodimethylamine	0.562	0.0416	"	0.831		67.7	11-129				
N-nitroso-di-n-propylamine	0.597	0.0416	"	0.831		71.9	24-119				
N-Nitrosodiphenylamine	0.720	0.0416	"	0.831		86.6	22-152				
Pentachlorophenol	0.564	0.0416	"	0.831		67.9	10-139				
Phenanthrene	0.609	0.0416	"	0.831		73.4	33-123				
Phenol	0.585	0.0416	"	0.831		70.5	23-115				
Pyrene	0.593	0.0416	"	0.831		71.4	32-130				
Pyridine	0.422	0.166	"	0.831		50.8	10-91				
Surrogate: SURR: 2-Fluorophenol	*1.16*		"	*1.66*		*70.0*	*20-108*				
Surrogate: SURR: Phenol-d5	*1.11*		"	*1.66*		*67.1*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.612*		"	*0.831*		*73.7*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.573*		"	*0.831*		*69.0*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.27*		"	*1.66*		*76.4*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.598*		"	*0.831*		*72.0*	*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 BE91142 - EPA 3550C											
Matrix Spike (BE91142-MS1)	*Source sample: 19E0591-04 (SB002 (4-6))							Prepared: 05/20/2019 Analyzed: 05/22/2019			
1,1-Biphenyl	ND	2.68	mg/kg dry	1.07	ND		10-130	Low Bias			
1,2,4,5-Tetrachlorobenzene	ND	5.36	"	1.07	ND		10-133	Low Bias			
1,2,4-Trichlorobenzene	ND	2.68	"	1.07	ND		10-127	Low Bias			
1,2-Dichlorobenzene	ND	2.68	"	1.07	ND		14-111	Low Bias			
1,2-Diphenylhydrazine (as Azobenzene)	ND	2.68	"	1.07	ND		10-144	Low Bias			
1,3-Dichlorobenzene	ND	2.68	"	1.07	ND		11-111	Low Bias			
1,4-Dichlorobenzene	ND	2.68	"	1.07	ND		10-106	Low Bias			
2,3,4,6-Tetrachlorophenol	ND	5.36	"	1.07	ND		30-130	Low Bias			
2,4,5-Trichlorophenol	ND	2.68	"	1.07	ND		10-127	Low Bias			
2,4,6-Trichlorophenol	ND	2.68	"	1.07	ND		10-132	Low Bias			
2,4-Dichlorophenol	ND	2.68	"	1.07	ND		10-128	Low Bias			
2,4-Dimethylphenol	ND	2.68	"	1.07	ND		10-137	Low Bias			
2,4-Dinitrophenol	ND	5.36	"	1.07	ND		10-171	Low Bias			
2,4-Dinitrotoluene	ND	2.68	"	1.07	ND		16-135	Low Bias			
2,6-Dinitrotoluene	36.8	2.68	"	1.07	ND	NR	18-131	High Bias			
2-Chloronaphthalene	ND	2.68	"	1.07	ND		10-129	Low Bias			
2-Chlorophenol	ND	2.68	"	1.07	ND		15-116	Low Bias			
2-Methylnaphthalene	ND	2.68	"	1.07	ND		10-147	Low Bias			
2-Methylphenol	ND	2.68	"	1.07	ND		10-136	Low Bias			
2-Nitroaniline	ND	5.36	"	1.07	ND		10-137	Low Bias			
2-Nitrophenol	ND	2.68	"	1.07	ND		10-129	Low Bias			
3- & 4-Methylphenols	ND	2.68	"	1.07	ND		10-123	Low Bias			
3,3-Dichlorobenzidine	ND	2.68	"	1.07	ND		10-155	Low Bias			
3-Nitroaniline	ND	5.36	"	1.07	ND		12-133	Low Bias			
4,6-Dinitro-2-methylphenol	ND	5.36	"	1.07	ND		10-155	Low Bias			
4-Bromophenyl phenyl ether	ND	2.68	"	1.07	ND		14-128	Low Bias			
4-Chloro-3-methylphenol	ND	2.68	"	1.07	ND		10-134	Low Bias			
4-Chloroaniline	ND	2.68	"	1.07	ND		10-145	Low Bias			
4-Chlorophenyl phenyl ether	ND	2.68	"	1.07	ND		14-130	Low Bias			
4-Nitroaniline	ND	5.36	"	1.07	ND		10-147	Low Bias			
4-Nitrophenol	ND	5.36	"	1.07	ND		10-137	Low Bias			
Acenaphthene	ND	2.68	"	1.07	ND		10-146	Low Bias			
Acenaphthylene	ND	2.68	"	1.07	ND		10-134	Low Bias			
Acetophenone	ND	2.68	"	1.07	ND		10-116	Low Bias			
Aniline	ND	10.7	"	1.07	ND		10-123	Low Bias			
Anthracene	1.50	2.68	"	1.07	ND	140	10-142				
Atrazine	ND	2.68	"	1.07	ND		19-115	Low Bias			
Benzaldehyde	ND	2.68	"	1.07	ND		10-125	Low Bias			
Benzo(a)anthracene	3.75	2.68	"	1.07	3.13	57.9	10-158				
Benzo(a)pyrene	3.56	2.68	"	1.07	3.00	51.9	10-180				
Benzo(b)fluoranthene	3.17	2.68	"	1.07	2.30	81.4	10-200				
Benzo(g,h,i)perylene	2.59	2.68	"	1.07	1.94	61.2	10-138				
Benzo(k)fluoranthene	2.59	2.68	"	1.07	2.30	27.4	10-197				
Benzoic acid	ND	2.68	"	1.22	ND		10-166	Low Bias			
Benzyl alcohol	ND	2.68	"	1.07	ND		12-124	Low Bias			
Benzyl butyl phthalate	ND	2.68	"	1.07	ND		10-154	Low Bias			
Bis(2-chloroethoxy)methane	ND	2.68	"	1.07	ND		10-132	Low Bias			
Bis(2-chloroethyl)ether	ND	2.68	"	1.07	ND		10-119	Low Bias			
Bis(2-chloroisopropyl)ether	ND	2.68	"	1.07	ND		10-139	Low Bias			
Bis(2-ethylhexyl)phthalate	ND	2.68	"	1.07	ND		10-167	Low Bias			
Caprolactam	ND	5.36	"	1.07	ND		10-132	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
Batch BE91142 - EPA 3550C											
Matrix Spike (BE91142-MS1)	*Source sample: 19E0591-04 (SB002 (4-6))							Prepared: 05/20/2019 Analyzed: 05/22/2019			
Carbazole	ND	2.68	mg/kg dry	1.07	ND		10-167	Low Bias			
Chrysene	3.22	2.68	"	1.07	2.68	49.7	10-156				
Dibenzo(a,h)anthracene	ND	2.68	"	1.07	ND		10-137	Low Bias			
Dibenzofuran	ND	2.68	"	1.07	ND		10-147	Low Bias			
Diethyl phthalate	ND	2.68	"	1.07	ND		20-120	Low Bias			
Dimethyl phthalate	ND	2.68	"	1.07	ND		18-131	Low Bias			
Di-n-butyl phthalate	ND	2.68	"	1.07	ND		10-137	Low Bias			
Di-n-octyl phthalate	ND	2.68	"	1.07	ND		10-180	Low Bias			
Fluoranthene	6.48	2.68	"	1.07	5.15	123	10-160				
Fluorene	ND	2.68	"	1.07	ND		10-157	Low Bias			
Hexachlorobenzene	ND	2.68	"	1.07	ND		10-137	Low Bias			
Hexachlorobutadiene	ND	2.68	"	1.07	ND		10-132	Low Bias			
Hexachlorocyclopentadiene	ND	2.68	"	1.07	ND		10-106	Low Bias			
Hexachloroethane	ND	2.68	"	1.07	ND		10-110	Low Bias			
Indeno(1,2,3-cd)pyrene	2.83	2.68	"	1.07	2.15	63.3	10-144				
Isophorone	ND	2.68	"	1.07	ND		10-132	Low Bias			
Naphthalene	ND	2.68	"	1.07	ND		10-141	Low Bias			
Nitrobenzene	ND	2.68	"	1.07	ND		10-131	Low Bias			
N-Nitrosodimethylamine	ND	2.68	"	1.07	ND		10-126	Low Bias			
N-nitroso-di-n-propylamine	ND	2.68	"	1.07	ND		10-125	Low Bias			
N-Nitrosodiphenylamine	ND	2.68	"	1.07	ND		10-177	Low Bias			
Pentachlorophenol	ND	2.68	"	1.07	ND		10-153	Low Bias			
Phenanthrene	4.31	2.68	"	1.07	2.68	152	10-148	High Bias			
Phenol	ND	2.68	"	1.07	ND		10-126	Low Bias			
Pyrene	5.45	2.68	"	1.07	4.79	61.0	10-165				
Pyridine	ND	10.7	"	1.07	ND		10-83	Low Bias			
Surrogate: SURR: 2-Fluorophenol	*1.29*		"	*2.14*		*60.0*	*20-108*				
Surrogate: SURR: Phenol-d5	*1.16*		"	*2.14*		*54.0*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.643*		"	*1.07*		*60.0*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.579*		"	*1.07*		*54.0*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.29*		"	*2.14*		*60.0*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.643*		"	*1.07*		*60.0*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Batch BE91142 - EPA 3550C

Matrix Spike Dup (BE91142-MSD1) *Source sample: 19E0591-04 (SB002 (4-6)) Prepared: 05/20/2019 Analyzed: 05/22/2019

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1-Biphenyl	ND	2.68	mg/kg dry	1.07	ND		10-130	Low Bias		30	
1,2,4,5-Tetrachlorobenzene	ND	5.36	"	1.07	ND		10-133	Low Bias		30	
1,2,4-Trichlorobenzene	ND	2.68	"	1.07	ND		10-127	Low Bias		30	
1,2-Dichlorobenzene	ND	2.68	"	1.07	ND		14-111	Low Bias		30	
1,2-Diphenylhydrazine (as Azobenzene)	ND	2.68	"	1.07	ND		10-144	Low Bias		30	
1,3-Dichlorobenzene	ND	2.68	"	1.07	ND		11-111	Low Bias		30	
1,4-Dichlorobenzene	ND	2.68	"	1.07	ND		10-106	Low Bias		30	
2,3,4,6-Tetrachlorophenol	ND	5.36	"	1.07	ND		30-130	Low Bias		30	
2,4,5-Trichlorophenol	ND	2.68	"	1.07	ND		10-127	Low Bias		30	
2,4,6-Trichlorophenol	ND	2.68	"	1.07	ND		10-132	Low Bias		30	
2,4-Dichlorophenol	ND	2.68	"	1.07	ND		10-128	Low Bias		30	
2,4-Dimethylphenol	ND	2.68	"	1.07	ND		10-137	Low Bias		30	
2,4-Dinitrophenol	ND	5.36	"	1.07	ND		10-171	Low Bias		30	
2,4-Dinitrotoluene	ND	2.68	"	1.07	ND		16-135	Low Bias		30	
2,6-Dinitrotoluene	ND	2.68	"	1.07	ND		18-131	Low Bias		30	
2-Chloronaphthalene	ND	2.68	"	1.07	ND		10-129	Low Bias		30	
2-Chlorophenol	ND	2.68	"	1.07	ND		15-116	Low Bias		30	
2-Methylnaphthalene	ND	2.68	"	1.07	ND		10-147	Low Bias		30	
2-Methylphenol	ND	2.68	"	1.07	ND		10-136	Low Bias		30	
2-Nitroaniline	ND	5.36	"	1.07	ND		10-137	Low Bias		30	
2-Nitrophenol	ND	2.68	"	1.07	ND		10-129	Low Bias		30	
3- & 4-Methylphenols	ND	2.68	"	1.07	ND		10-123	Low Bias		30	
3,3-Dichlorobenzidine	ND	2.68	"	1.07	ND		10-155	Low Bias		30	
3-Nitroaniline	ND	5.36	"	1.07	ND		12-133	Low Bias		30	
4,6-Dinitro-2-methylphenol	ND	5.36	"	1.07	ND		10-155	Low Bias		30	
4-Bromophenyl phenyl ether	ND	2.68	"	1.07	ND		14-128	Low Bias		30	
4-Chloro-3-methylphenol	ND	2.68	"	1.07	ND		10-134	Low Bias		30	
4-Chloroaniline	ND	2.68	"	1.07	ND		10-145	Low Bias		30	
4-Chlorophenyl phenyl ether	ND	2.68	"	1.07	ND		14-130	Low Bias		30	
4-Nitroaniline	ND	5.36	"	1.07	ND		10-147	Low Bias		30	
4-Nitrophenol	ND	5.36	"	1.07	ND		10-137	Low Bias		30	
Acenaphthene	ND	2.68	"	1.07	ND		10-146	Low Bias		30	
Acenaphthylene	ND	2.68	"	1.07	ND		10-134	Low Bias		30	
Acetophenone	ND	2.68	"	1.07	ND		10-116	Low Bias		30	
Aniline	ND	10.7	"	1.07	ND		10-123	Low Bias		30	
Anthracene	ND	2.68	"	1.07	ND		10-142	Low Bias		30	
Atrazine	ND	2.68	"	1.07	ND		19-115	Low Bias		30	
Benzaldehyde	ND	2.68	"	1.07	ND		10-125	Low Bias		30	
Benzo(a)anthracene	2.70	2.68	"	1.07	3.13	NR	10-158	Low Bias	32.6	30	Non-dir.
Benzo(a)pyrene	2.81	2.68	"	1.07	3.00	NR	10-180	Low Bias	23.6	30	
Benzo(b)fluoranthene	2.57	2.68	"	1.07	2.30	25.4	10-200		20.9	30	
Benzo(g,h,i)perylene	2.19	2.68	"	1.07	1.94	23.2	10-138		17.0	30	
Benzo(k)fluoranthene	2.12	2.68	"	1.07	2.30	NR	10-197	Low Bias	20.0	30	
Benzoic acid	ND	2.68	"	1.22	ND		10-166	Low Bias		30	
Benzyl alcohol	ND	2.68	"	1.07	ND		12-124	Low Bias		30	
Benzyl butyl phthalate	ND	2.68	"	1.07	ND		10-154	Low Bias		30	
Bis(2-chloroethoxy)methane	ND	2.68	"	1.07	ND		10-132	Low Bias		30	
Bis(2-chloroethyl)ether	ND	2.68	"	1.07	ND		10-119	Low Bias		30	
Bis(2-chloroisopropyl)ether	ND	2.68	"	1.07	ND		10-139	Low Bias		30	
Bis(2-ethylhexyl)phthalate	ND	2.68	"	1.07	ND		10-167	Low Bias		30	
Caprolactam	ND	5.36	"	1.07	ND		10-132	Low Bias		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 BE91142 - EPA 3550C											
Matrix Spike Dup (BE91142-MSD1)	*Source sample: 19E0591-04 (SB002 (4-6))							Prepared: 05/20/2019 Analyzed: 05/22/2019			
Carbazole	ND	2.68	mg/kg dry	1.07	ND		10-167	Low Bias		30	
Chrysene	2.34	2.68	"	1.07	2.68	NR	10-156	Low Bias	31.7	30	Non-dir.
Dibenzo(a,h)anthracene	ND	2.68	"	1.07	ND		10-137	Low Bias		30	
Dibenzofuran	ND	2.68	"	1.07	ND		10-147	Low Bias		30	
Diethyl phthalate	ND	2.68	"	1.07	ND		20-120	Low Bias		30	
Dimethyl phthalate	ND	2.68	"	1.07	ND		18-131	Low Bias		30	
Di-n-butyl phthalate	ND	2.68	"	1.07	ND		10-137	Low Bias		30	
Di-n-octyl phthalate	ND	2.68	"	1.07	ND		10-180	Low Bias		30	
Fluoranthene	4.42	2.68	"	1.07	5.15	NR	10-160	Low Bias	37.8	30	Non-dir.
Fluorene	ND	2.68	"	1.07	ND		10-157	Low Bias		30	
Hexachlorobenzene	ND	2.68	"	1.07	ND		10-137	Low Bias		30	
Hexachlorobutadiene	ND	2.68	"	1.07	ND		10-132	Low Bias		30	
Hexachlorocyclopentadiene	ND	2.68	"	1.07	ND		10-106	Low Bias		30	
Hexachloroethane	ND	2.68	"	1.07	ND		10-110	Low Bias		30	
Indeno(1,2,3-cd)pyrene	2.62	2.68	"	1.07	2.15	43.3	10-144		7.87	30	
Isophorone	ND	2.68	"	1.07	ND		10-132	Low Bias		30	
Naphthalene	ND	2.68	"	1.07	ND		10-141	Low Bias		30	
Nitrobenzene	ND	2.68	"	1.07	ND		10-131	Low Bias		30	
N-Nitrosodimethylamine	ND	2.68	"	1.07	ND		10-126	Low Bias		30	
N-nitroso-di-n-propylamine	ND	2.68	"	1.07	ND		10-125	Low Bias		30	
N-Nitrosodiphenylamine	ND	2.68	"	1.07	ND		10-177	Low Bias		30	
Pentachlorophenol	ND	2.68	"	1.07	ND		10-153	Low Bias		30	
Phenanthrene	2.64	2.68	"	1.07	2.68	NR	10-148	Low Bias	48.1	30	Non-dir.
Phenol	ND	2.68	"	1.07	ND		10-126	Low Bias		30	
Pyrene	3.69	2.68	"	1.07	4.79	NR	10-165	Low Bias	38.5	30	Non-dir.
Pyridine	ND	10.7	"	1.07	ND		10-83	Low Bias		30	
Surrogate: SURR: 2-Fluorophenol	*1.35*		"	*2.14*		*63.0*	*20-108*				
Surrogate: SURR: Phenol-d5	*1.33*		"	*2.14*		*62.0*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.750*		"	*1.07*		*70.0*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.708*		"	*1.07*		*66.0*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.35*		"	*2.14*		*63.0*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.686*		"	*1.07*		*64.0*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

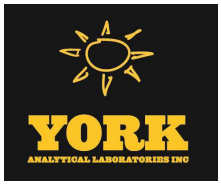
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE91201 - EPA 3550C											
Blank (BE91201-BLK1)											
1,1-Biphenyl	ND	0.0417	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0833	"								
1,2,4-Trichlorobenzene	ND	0.0417	"								
1,2-Dichlorobenzene	ND	0.0417	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0417	"								
1,3-Dichlorobenzene	ND	0.0417	"								
1,4-Dichlorobenzene	ND	0.0417	"								
2,3,4,6-Tetrachlorophenol	ND	0.0833	"								
2,4,5-Trichlorophenol	ND	0.0417	"								
2,4,6-Trichlorophenol	ND	0.0417	"								
2,4-Dichlorophenol	ND	0.0417	"								
2,4-Dimethylphenol	ND	0.0417	"								
2,4-Dinitrophenol	ND	0.0833	"								
2,4-Dinitrotoluene	ND	0.0417	"								
2,6-Dinitrotoluene	ND	0.0417	"								
2-Chloronaphthalene	ND	0.0417	"								
2-Chlorophenol	ND	0.0417	"								
2-Methylnaphthalene	ND	0.0417	"								
2-Methylphenol	ND	0.0417	"								
2-Nitroaniline	ND	0.0833	"								
2-Nitrophenol	ND	0.0417	"								
3- & 4-Methylphenols	ND	0.0417	"								
3,3-Dichlorobenzidine	ND	0.0417	"								
3-Nitroaniline	ND	0.0833	"								
4,6-Dinitro-2-methylphenol	ND	0.0833	"								
4-Bromophenyl phenyl ether	ND	0.0417	"								
4-Chloro-3-methylphenol	ND	0.0417	"								
4-Chloroaniline	ND	0.0417	"								
4-Chlorophenyl phenyl ether	ND	0.0417	"								
4-Nitroaniline	ND	0.0833	"								
4-Nitrophenol	ND	0.0833	"								
Acenaphthene	ND	0.0417	"								
Acenaphthylene	ND	0.0417	"								
Acetophenone	ND	0.0417	"								
Aniline	ND	0.167	"								
Anthracene	ND	0.0417	"								
Atrazine	ND	0.0417	"								
Benzaldehyde	ND	0.0417	"								
Benzidine	ND	0.167	"								
Benzo(a)anthracene	ND	0.0417	"								
Benzo(a)pyrene	ND	0.0417	"								
Benzo(b)fluoranthene	ND	0.0417	"								
Benzo(g,h,i)perylene	ND	0.0417	"								
Benzo(k)fluoranthene	ND	0.0417	"								
Benzoic acid	ND	0.0417	"								
Benzyl alcohol	ND	0.0417	"								
Benzyl butyl phthalate	ND	0.0417	"								
Bis(2-chloroethoxy)methane	ND	0.0417	"								
Bis(2-chloroethyl)ether	ND	0.0417	"								
Bis(2-chloroisopropyl)ether	ND	0.0417	"								
Bis(2-ethylhexyl)phthalate	ND	0.0417	"								

Prepared: 05/20/2019 Analyzed: 05/22/2019

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 BE91201 - EPA 3550C											
Blank (BE91201-BLK1)											
Prepared: 05/20/2019 Analyzed: 05/22/2019											
Caprolactam	ND	0.0833	mg/kg wet								
Carbazole	ND	0.0417	"								
Chrysene	ND	0.0417	"								
Dibenzo(a,h)anthracene	ND	0.0417	"								
Dibenzofuran	ND	0.0417	"								
Diethyl phthalate	ND	0.0417	"								
Dimethyl phthalate	ND	0.0417	"								
Di-n-butyl phthalate	ND	0.0417	"								
Di-n-octyl phthalate	ND	0.0417	"								
Fluoranthene	ND	0.0417	"								
Fluorene	ND	0.0417	"								
Hexachlorobenzene	ND	0.0417	"								
Hexachlorobutadiene	ND	0.0417	"								
Hexachlorocyclopentadiene	ND	0.0417	"								
Hexachloroethane	ND	0.0417	"								
Indeno(1,2,3-cd)pyrene	ND	0.0417	"								
Isophorone	ND	0.0417	"								
Naphthalene	ND	0.0417	"								
Nitrobenzene	ND	0.0417	"								
N-Nitrosodimethylamine	ND	0.0417	"								
N-nitroso-di-n-propylamine	ND	0.0417	"								
N-Nitrosodiphenylamine	ND	0.0417	"								
Pentachlorophenol	ND	0.0417	"								
Phenanthrene	ND	0.0417	"								
Phenol	ND	0.0417	"								
Pyrene	ND	0.0417	"								
Pyridine	ND	0.167	"								
Surrogate: SURR: 2-Fluorophenol	*1.09*		"	*1.67*		*65.4*	*20-108*				
Surrogate: SURR: Phenol-d5	*0.959*		"	*1.67*		*57.6*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.522*		"	*0.833*		*62.6*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.445*		"	*0.833*		*53.4*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.756*		"	*1.67*		*45.4*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.484*		"	*0.833*		*58.1*	*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 BE91201 - EPA 3550C											
LCS (BE91201-BS1)								Prepared: 05/20/2019 Analyzed: 05/22/2019			
1,1-Biphenyl	0.409	0.0417	mg/kg wet	0.833		49.1	18-111				
1,2,4,5-Tetrachlorobenzene	0.539	0.0833	"	0.833		64.7	21-131				
1,2,4-Trichlorobenzene	0.351	0.0417	"	0.833		42.1	10-140				
1,2-Dichlorobenzene	0.398	0.0417	"	0.833		47.8	34-108				
1,2-Diphenylhydrazine (as Azobenzene)	0.454	0.0417	"	0.833		54.5	17-137				
1,3-Dichlorobenzene	0.397	0.0417	"	0.833		47.6	33-110				
1,4-Dichlorobenzene	0.401	0.0417	"	0.833		48.1	32-104				
2,3,4,6-Tetrachlorophenol	1.01	0.0833	"	0.833		121	30-130				
2,4,5-Trichlorophenol	0.389	0.0417	"	0.833		46.7	27-118				
2,4,6-Trichlorophenol	0.447	0.0417	"	0.833		53.7	31-120				
2,4-Dichlorophenol	0.452	0.0417	"	0.833		54.2	20-127				
2,4-Dimethylphenol	0.455	0.0417	"	0.833		54.6	14-132				
2,4-Dinitrophenol	0.364	0.0833	"	0.833		43.6	10-171				
2,4-Dinitrotoluene	0.420	0.0417	"	0.833		50.4	34-131				
2,6-Dinitrotoluene	0.438	0.0417	"	0.833		52.5	31-128				
2-Chloronaphthalene	0.391	0.0417	"	0.833		46.9	31-117				
2-Chlorophenol	0.524	0.0417	"	0.833		62.9	33-113				
2-Methylnaphthalene	0.472	0.0417	"	0.833		56.6	12-138				
2-Methylphenol	0.468	0.0417	"	0.833		56.2	10-136				
2-Nitroaniline	0.523	0.0833	"	0.833		62.8	27-132				
2-Nitrophenol	0.505	0.0417	"	0.833		60.6	17-129				
3- & 4-Methylphenols	0.427	0.0417	"	0.833		51.3	29-103				
3,3-Dichlorobenzidine	0.445	0.0417	"	0.833		53.4	22-149				
3-Nitroaniline	0.457	0.0833	"	0.833		54.8	20-133				
4,6-Dinitro-2-methylphenol	0.369	0.0833	"	0.833		44.3	10-143				
4-Bromophenyl phenyl ether	0.387	0.0417	"	0.833		46.5	29-120				
4-Chloro-3-methylphenol	0.492	0.0417	"	0.833		59.1	24-129				
4-Chloroaniline	0.383	0.0417	"	0.833		45.9	10-132				
4-Chlorophenyl phenyl ether	0.427	0.0417	"	0.833		51.2	27-124				
4-Nitroaniline	0.505	0.0833	"	0.833		60.6	16-128				
4-Nitrophenol	0.555	0.0833	"	0.833		66.6	10-141				
Acenaphthene	0.394	0.0417	"	0.833		47.2	30-121				
Acenaphthylene	0.423	0.0417	"	0.833		50.8	30-115				
Acetophenone	0.461	0.0417	"	0.833		55.3	20-112				
Aniline	0.511	0.167	"	0.833		61.4	10-119				
Anthracene	0.483	0.0417	"	0.833		58.0	34-118				
Atrazine	0.421	0.0417	"	0.833		50.5	26-112				
Benzaldehyde	0.615	0.0417	"	0.833		73.8	21-100				
Benzo(a)anthracene	0.476	0.0417	"	0.833		57.1	32-122				
Benzo(a)pyrene	0.498	0.0417	"	0.833		59.7	29-133				
Benzo(b)fluoranthene	0.478	0.0417	"	0.833		57.4	25-133				
Benzo(g,h,i)perylene	0.465	0.0417	"	0.833		55.8	10-143				
Benzo(k)fluoranthene	0.433	0.0417	"	0.833		51.9	25-128				
Benzoic acid	0.444	0.0417	"	0.950		46.8	10-140				
Benzyl alcohol	0.584	0.0417	"	0.833		70.1	30-115				
Benzyl butyl phthalate	0.656	0.0417	"	0.833		78.7	26-126				
Bis(2-chloroethoxy)methane	0.483	0.0417	"	0.833		58.0	19-132				
Bis(2-chloroethyl)ether	0.518	0.0417	"	0.833		62.2	19-125				
Bis(2-chloroisopropyl)ether	0.597	0.0417	"	0.833		71.6	20-135				
Bis(2-ethylhexyl)phthalate	0.638	0.0417	"	0.833		76.5	10-155				
Caprolactam	0.442	0.0833	"	0.833		53.0	10-127				

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 BE91201 - EPA 3550C											
LCS (BE91201-BS1)									Prepared: 05/20/2019 Analyzed: 05/22/2019		
Carbazole	0.475	0.0417	mg/kg wet	0.833		57.0	35-123				
Chrysene	0.452	0.0417	"	0.833		54.2	32-123				
Dibenzo(a,h)anthracene	0.471	0.0417	"	0.833		56.5	10-136				
Dibenzofuran	0.481	0.0417	"	0.833		57.8	29-121				
Diethyl phthalate	0.506	0.0417	"	0.833		60.7	34-116				
Dimethyl phthalate	0.480	0.0417	"	0.833		57.6	35-124				
Di-n-butyl phthalate	0.574	0.0417	"	0.833		68.9	31-116				
Di-n-octyl phthalate	0.770	0.0417	"	0.833		92.4	26-136				
Fluoranthene	0.478	0.0417	"	0.833		57.4	33-122				
Fluorene	0.398	0.0417	"	0.833		47.8	29-123				
Hexachlorobenzene	0.357	0.0417	"	0.833		42.8	21-124				
Hexachlorobutadiene	0.336	0.0417	"	0.833		40.4	10-149				
Hexachlorocyclopentadiene	0.193	0.0417	"	0.833		23.1	10-129				
Hexachloroethane	0.408	0.0417	"	0.833		49.0	28-108				
Indeno(1,2,3-cd)pyrene	0.511	0.0417	"	0.833		61.3	10-135				
Isophorone	0.464	0.0417	"	0.833		55.7	20-132				
Naphthalene	0.444	0.0417	"	0.833		53.3	23-124				
Nitrobenzene	0.453	0.0417	"	0.833		54.4	13-132				
N-Nitrosodimethylamine	0.643	0.0417	"	0.833		77.1	11-129				
N-nitroso-di-n-propylamine	0.524	0.0417	"	0.833		62.9	24-119				
N-Nitrosodiphenylamine	0.511	0.0417	"	0.833		61.3	22-152				
Pentachlorophenol	0.257	0.0417	"	0.833		30.8	10-139				
Phenanthrene	0.482	0.0417	"	0.833		57.8	33-123				
Phenol	0.540	0.0417	"	0.833		64.8	23-115				
Pyrene	0.485	0.0417	"	0.833		58.2	32-130				
Pyridine	0.316	0.167	"	0.833		37.9	10-91				
Surrogate: SURR: 2-Fluorophenol	*1.16*		"	*1.67*		*69.7*	*20-108*				
Surrogate: SURR: Phenol-d5	*1.02*		"	*1.67*		*61.1*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.554*		"	*0.833*		*66.5*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.468*		"	*0.833*		*56.2*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.824*		"	*1.67*		*49.4*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.525*		"	*0.833*		*63.0*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Batch BE91201 - EPA 3550C

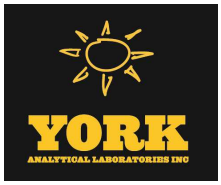
Matrix Spike (BE91201-MS1) *Source sample: 19E0591-07 (SB003 (6-8)) Prepared: 05/20/2019 Analyzed: 05/22/2019

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1-Biphenyl	0.550	0.0934	mg/kg dry	0.933	ND	59.0	10-130				
1,2,4,5-Tetrachlorobenzene	0.750	0.187	"	0.933	ND	80.4	10-133				
1,2,4-Trichlorobenzene	0.474	0.0934	"	0.933	ND	50.8	10-127				
1,2-Dichlorobenzene	0.589	0.0934	"	0.933	ND	63.1	14-111				
1,2-Diphenylhydrazine (as Azobenzene)	0.518	0.0934	"	0.933	ND	55.5	10-144				
1,3-Dichlorobenzene	0.575	0.0934	"	0.933	ND	61.6	11-111				
1,4-Dichlorobenzene	0.563	0.0934	"	0.933	ND	60.3	10-106				
2,3,4,6-Tetrachlorophenol	0.554	0.187	"	0.933	ND	59.4	30-130				
2,4,5-Trichlorophenol	0.556	0.0934	"	0.933	ND	59.6	10-127				
2,4,6-Trichlorophenol	0.640	0.0934	"	0.933	ND	68.6	10-132				
2,4-Dichlorophenol	0.637	0.0934	"	0.933	ND	68.2	10-128				
2,4-Dimethylphenol	0.703	0.0934	"	0.933	ND	75.3	10-137				
2,4-Dinitrophenol	0.348	0.187	"	0.933	ND	37.3	10-171				
2,4-Dinitrotoluene	0.588	0.0934	"	0.933	ND	63.0	16-135				
2,6-Dinitrotoluene	0.603	0.0934	"	0.933	ND	64.6	18-131				
2-Chloronaphthalene	0.532	0.0934	"	0.933	ND	57.0	10-129				
2-Chlorophenol	0.799	0.0934	"	0.933	ND	85.6	15-116				
2-Methylnaphthalene	0.676	0.0934	"	0.933	ND	72.4	10-147				
2-Methylphenol	0.739	0.0934	"	0.933	ND	79.2	10-136				
2-Nitroaniline	0.776	0.187	"	0.933	ND	83.2	10-137				
2-Nitrophenol	0.744	0.0934	"	0.933	ND	79.8	10-129				
3- & 4-Methylphenols	0.666	0.0934	"	0.933	ND	71.4	10-123				
3,3-Dichlorobenzidine	0.554	0.0934	"	0.933	ND	59.4	10-155				
3-Nitroaniline	0.650	0.187	"	0.933	ND	69.6	12-133				
4,6-Dinitro-2-methylphenol	0.535	0.187	"	0.933	ND	57.4	10-155				
4-Bromophenyl phenyl ether	0.548	0.0934	"	0.933	ND	58.7	14-128				
4-Chloro-3-methylphenol	0.729	0.0934	"	0.933	ND	78.1	10-134				
4-Chloroaniline	0.533	0.0934	"	0.933	ND	57.1	10-145				
4-Chlorophenyl phenyl ether	0.597	0.0934	"	0.933	ND	64.0	14-130				
4-Nitroaniline	0.707	0.187	"	0.933	ND	75.8	10-147				
4-Nitrophenol	0.676	0.187	"	0.933	ND	72.5	10-137				
Acenaphthene	0.611	0.0934	"	0.933	0.0761	57.3	10-146				
Acenaphthylene	0.608	0.0934	"	0.933	ND	65.2	10-134				
Acetophenone	0.682	0.0934	"	0.933	ND	73.1	10-116				
Aniline	0.721	0.374	"	0.933	ND	77.3	10-123				
Anthracene	0.769	0.0934	"	0.933	0.191	61.9	10-142				
Atrazine	0.548	0.0934	"	0.933	ND	58.7	19-115				
Benzaldehyde	0.898	0.0934	"	0.933	ND	96.2	10-125				
Benzo(a)anthracene	0.945	0.0934	"	0.933	0.370	61.7	10-158				
Benzo(a)pyrene	0.980	0.0934	"	0.933	0.352	67.3	10-180				
Benzo(b)fluoranthene	0.891	0.0934	"	0.933	0.240	69.8	10-200				
Benzo(g,h,i)perylene	0.757	0.0934	"	0.933	0.157	64.3	10-138				
Benzo(k)fluoranthene	0.779	0.0934	"	0.933	0.230	58.8	10-197				
Benzoic acid	0.128	0.0934	"	1.06	ND	12.1	10-166				
Benzyl alcohol	0.897	0.0934	"	0.933	ND	96.1	12-124				
Benzyl butyl phthalate	0.849	0.0934	"	0.933	ND	91.0	10-154				
Bis(2-chloroethoxy)methane	0.680	0.0934	"	0.933	ND	72.9	10-132				
Bis(2-chloroethyl)ether	0.795	0.0934	"	0.933	ND	85.2	10-119				
Bis(2-chloroisopropyl)ether	0.862	0.0934	"	0.933	ND	92.3	10-139				
Bis(2-ethylhexyl)phthalate	0.782	0.0934	"	0.933	ND	83.8	10-167				
Caprolactam	0.618	0.187	"	0.933	ND	66.2	10-132				

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 BE91201 - EPA 3550C											
Matrix Spike (BE91201-MS1)	*Source sample: 19E0591-07 (SB003 (6-8))							Prepared: 05/20/2019 Analyzed: 05/22/2019			
Carbazole	0.676	0.0934	mg/kg dry	0.933	0.0480	67.3	10-167				
Chrysene	0.862	0.0934	"	0.933	0.313	58.7	10-156				
Dibenzo(a,h)anthracene	0.661	0.0934	"	0.933	ND	70.9	10-137				
Dibenzofuran	0.690	0.0934	"	0.933	ND	73.9	10-147				
Diethyl phthalate	0.658	0.0934	"	0.933	ND	70.6	20-120				
Dimethyl phthalate	0.692	0.0934	"	0.933	ND	74.2	18-131				
Di-n-butyl phthalate	0.753	0.0934	"	0.933	ND	80.6	10-137				
Di-n-octyl phthalate	0.947	0.0934	"	0.933	ND	102	10-180				
Fluoranthene	1.32	0.0934	"	0.933	0.838	51.7	10-160				
Fluorene	0.586	0.0934	"	0.933	0.0710	55.2	10-157				
Hexachlorobenzene	0.458	0.0934	"	0.933	ND	49.1	10-137				
Hexachlorobutadiene	0.458	0.0934	"	0.933	ND	49.0	10-132				
Hexachlorocyclopentadiene	0.149	0.0934	"	0.933	ND	16.0	10-106				
Hexachloroethane	0.570	0.0934	"	0.933	ND	61.1	10-110				
Indeno(1,2,3-cd)pyrene	0.834	0.0934	"	0.933	0.204	67.5	10-144				
Isophorone	0.660	0.0934	"	0.933	ND	70.7	10-132				
Naphthalene	0.628	0.0934	"	0.933	ND	67.3	10-141				
Nitrobenzene	0.641	0.0934	"	0.933	ND	68.7	10-131				
N-Nitrosodimethylamine	0.991	0.0934	"	0.933	ND	106	10-126				
N-nitroso-di-n-propylamine	0.767	0.0934	"	0.933	ND	82.2	10-125				
N-Nitrosodiphenylamine	0.691	0.0934	"	0.933	ND	74.0	10-177				
Pentachlorophenol	0.334	0.0934	"	0.933	ND	35.8	10-153				
Phenanthrene	1.15	0.0934	"	0.933	0.733	44.5	10-148				
Phenol	0.864	0.0934	"	0.933	ND	92.6	10-126				
Pyrene	1.19	0.0934	"	0.933	0.725	49.7	10-165				
Pyridine	0.492	0.374	"	0.933	ND	52.7	10-83				
Surrogate: SURR: 2-Fluorophenol	*1.74*		"	*1.87*		*93.1*	*20-108*				
Surrogate: SURR: Phenol-d5	*1.57*		"	*1.87*		*83.9*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.773*		"	*0.933*		*82.9*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.642*		"	*0.933*		*68.8*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.20*		"	*1.87*		*64.1*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.693*		"	*0.933*		*74.2*	*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 BE91201 - EPA 3550C											
Matrix Spike Dup (BE91201-MSD1)	*Source sample: 19E0591-07 (SB003 (6-8))								Prepared: 05/20/2019 Analyzed: 05/22/2019		
1,1-Biphenyl	0.504	0.0934	mg/kg dry	0.933	ND	54.0	10-130		8.78	30	
1,2,4,5-Tetrachlorobenzene	0.617	0.187	"	0.933	ND	66.2	10-133		19.4	30	
1,2,4-Trichlorobenzene	0.403	0.0934	"	0.933	ND	43.2	10-127		16.2	30	
1,2-Dichlorobenzene	0.508	0.0934	"	0.933	ND	54.5	14-111		14.7	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.505	0.0934	"	0.933	ND	54.1	10-144		2.63	30	
1,3-Dichlorobenzene	0.505	0.0934	"	0.933	ND	54.1	11-111		13.0	30	
1,4-Dichlorobenzene	0.508	0.0934	"	0.933	ND	54.5	10-106		10.2	30	
2,3,4,6-Tetrachlorophenol	0.490	0.187	"	0.933	ND	52.6	30-130		12.2	30	
2,4,5-Trichlorophenol	0.467	0.0934	"	0.933	ND	50.1	10-127		17.4	30	
2,4,6-Trichlorophenol	0.544	0.0934	"	0.933	ND	58.2	10-132		16.3	30	
2,4-Dichlorophenol	0.563	0.0934	"	0.933	ND	60.3	10-128		12.3	30	
2,4-Dimethylphenol	0.611	0.0934	"	0.933	ND	65.5	10-137		13.9	30	
2,4-Dinitrophenol	0.272	0.187	"	0.933	ND	29.2	10-171		24.3	30	
2,4-Dinitrotoluene	0.502	0.0934	"	0.933	ND	53.8	16-135		15.6	30	
2,6-Dinitrotoluene	0.527	0.0934	"	0.933	ND	56.5	18-131		13.5	30	
2-Chloronaphthalene	0.473	0.0934	"	0.933	ND	50.6	10-129		11.7	30	
2-Chlorophenol	0.680	0.0934	"	0.933	ND	72.9	15-116		16.1	30	
2-Methylnaphthalene	0.597	0.0934	"	0.933	ND	63.9	10-147		12.4	30	
2-Methylphenol	0.637	0.0934	"	0.933	ND	68.2	10-136		14.9	30	
2-Nitroaniline	0.682	0.187	"	0.933	ND	73.0	10-137		13.0	30	
2-Nitrophenol	0.650	0.0934	"	0.933	ND	69.6	10-129		13.6	30	
3- & 4-Methylphenols	0.619	0.0934	"	0.933	ND	66.3	10-123		7.32	30	
3,3-Dichlorobenzidine	0.482	0.0934	"	0.933	ND	51.7	10-155		13.8	30	
3-Nitroaniline	0.603	0.187	"	0.933	ND	64.6	12-133		7.39	30	
4,6-Dinitro-2-methylphenol	0.452	0.187	"	0.933	ND	48.4	10-155		16.9	30	
4-Bromophenyl phenyl ether	0.470	0.0934	"	0.933	ND	50.4	14-128		15.2	30	
4-Chloro-3-methylphenol	0.651	0.0934	"	0.933	ND	69.8	10-134		11.3	30	
4-Chloroaniline	0.479	0.0934	"	0.933	ND	51.4	10-145		10.6	30	
4-Chlorophenyl phenyl ether	0.515	0.0934	"	0.933	ND	55.2	14-130		14.8	30	
4-Nitroaniline	0.664	0.187	"	0.933	ND	71.2	10-147		6.21	30	
4-Nitrophenol	0.713	0.187	"	0.933	ND	76.4	10-137		5.27	30	
Acenaphthene	0.558	0.0934	"	0.933	0.0761	51.6	10-146		9.07	30	
Acenaphthylene	0.574	0.0934	"	0.933	ND	61.5	10-134		5.81	30	
Acetophenone	0.611	0.0934	"	0.933	ND	65.4	10-116		11.1	30	
Aniline	0.646	0.374	"	0.933	ND	69.2	10-123		11.0	30	
Anthracene	0.823	0.0934	"	0.933	0.191	67.6	10-142		6.75	30	
Atrazine	0.482	0.0934	"	0.933	ND	51.7	19-115		12.8	30	
Benzaldehyde	0.856	0.0934	"	0.933	ND	91.8	10-125		4.77	30	
Benzo(a)anthracene	1.22	0.0934	"	0.933	0.370	90.8	10-158		25.1	30	
Benzo(a)pyrene	1.15	0.0934	"	0.933	0.352	85.5	10-180		16.0	30	
Benzo(b)fluoranthene	1.04	0.0934	"	0.933	0.240	85.2	10-200		15.0	30	
Benzo(g,h,i)perylene	0.814	0.0934	"	0.933	0.157	70.4	10-138		7.22	30	
Benzo(k)fluoranthene	0.944	0.0934	"	0.933	0.230	76.5	10-197		19.2	30	
Benzoic acid	0.110	0.0934	"	1.06	ND	10.3	10-166		15.7	30	
Benzyl alcohol	0.779	0.0934	"	0.933	ND	83.4	12-124		14.1	30	
Benzyl butyl phthalate	0.767	0.0934	"	0.933	ND	82.2	10-154		10.1	30	
Bis(2-chloroethoxy)methane	0.619	0.0934	"	0.933	ND	66.3	10-132		9.43	30	
Bis(2-chloroethyl)ether	0.674	0.0934	"	0.933	ND	72.2	10-119		16.5	30	
Bis(2-chloroisopropyl)ether	0.770	0.0934	"	0.933	ND	82.6	10-139		11.2	30	
Bis(2-ethylhexyl)phthalate	0.704	0.0934	"	0.933	ND	75.4	10-167		10.5	30	
Caprolactam	0.561	0.187	"	0.933	ND	60.2	10-132		9.62	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 BE91201 - EPA 3550C											
Matrix Spike Dup (BE91201-MSD1)	*Source sample: 19E0591-07 (SB003 (6-8))								Prepared: 05/20/2019 Analyzed: 05/22/2019		
Carbazole	0.673	0.0934	mg/kg dry	0.933	0.0480	67.0	10-167		0.442	30	
Chrysene	1.10	0.0934	"	0.933	0.313	84.4	10-156		24.4	30	
Dibenzo(a,h)anthracene	0.647	0.0934	"	0.933	ND	69.3	10-137		2.28	30	
Dibenzofuran	0.655	0.0934	"	0.933	ND	70.2	10-147		5.11	30	
Diethyl phthalate	0.600	0.0934	"	0.933	ND	64.3	20-120		9.25	30	
Dimethyl phthalate	0.594	0.0934	"	0.933	ND	63.7	18-131		15.2	30	
Di-n-butyl phthalate	0.685	0.0934	"	0.933	ND	73.4	10-137		9.35	30	
Di-n-octyl phthalate	0.877	0.0934	"	0.933	ND	94.0	10-180		7.69	30	
Fluoranthene	1.94	0.0934	"	0.933	0.838	118	10-160		38.1	30	Non-dir.
Fluorene	0.594	0.0934	"	0.933	0.0710	56.1	10-157		1.39	30	
Hexachlorobenzene	0.440	0.0934	"	0.933	ND	47.1	10-137		4.16	30	
Hexachlorobutadiene	0.391	0.0934	"	0.933	ND	41.9	10-132		15.7	30	
Hexachlorocyclopentadiene	0.112	0.0934	"	0.933	ND	12.0	10-106		28.6	30	
Hexachloroethane	0.505	0.0934	"	0.933	ND	54.2	10-110		12.1	30	
Indeno(1,2,3-cd)pyrene	0.905	0.0934	"	0.933	0.204	75.1	10-144		8.16	30	
Isophorone	0.609	0.0934	"	0.933	ND	65.3	10-132		8.00	30	
Naphthalene	0.572	0.0934	"	0.933	ND	61.3	10-141		9.33	30	
Nitrobenzene	0.576	0.0934	"	0.933	ND	61.8	10-131		10.7	30	
N-Nitrosodimethylamine	0.926	0.0934	"	0.933	ND	99.2	10-126		6.85	30	
N-nitroso-di-n-propylamine	0.707	0.0934	"	0.933	ND	75.8	10-125		8.20	30	
N-Nitrosodiphenylamine	0.682	0.0934	"	0.933	ND	73.1	10-177		1.20	30	
Pentachlorophenol	0.338	0.0934	"	0.933	ND	36.2	10-153		1.11	30	
Phenanthrene	1.55	0.0934	"	0.933	0.733	87.1	10-148		29.5	30	
Phenol	0.760	0.0934	"	0.933	ND	81.4	10-126		12.8	30	
Pyrene	1.76	0.0934	"	0.933	0.725	111	10-165		38.7	30	Non-dir.
Pyridine	0.466	0.374	"	0.933	ND	49.9	10-83		5.46	30	
Surrogate: SURR: 2-Fluorophenol	*1.58*		"	*1.87*		*84.7*	*20-108*				
Surrogate: SURR: Phenol-d5	*1.41*		"	*1.87*		*75.3*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.720*		"	*0.933*		*77.2*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.552*		"	*0.933*		*59.1*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.03*		"	*1.87*		*55.1*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.608*		"	*0.933*		*65.1*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

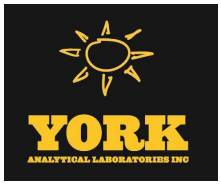
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE91249 - EPA 3550C											
Blank (BE91249-BLK1)											
1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2,4-Trichlorobenzene	ND	0.0416	"								
1,2-Dichlorobenzene	ND	0.0416	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
1,3-Dichlorobenzene	ND	0.0416	"								
1,4-Dichlorobenzene	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	"								

Prepared: 05/21/2019 Analyzed: 05/22/2019

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 BE91249 - EPA 3550C											
Blank (BE91249-BLK1)											
Prepared: 05/21/2019 Analyzed: 05/22/2019											
Caprolactam	ND	0.0830	mg/kg wet								
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	"								
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	"								
Surrogate: SURR: 2-Fluorophenol	*1.33*		"	*1.66*		*80.2*	*20-108*				
Surrogate: SURR: Phenol-d5	*1.16*		"	*1.66*		*69.7*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.638*		"	*0.831*		*76.8*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.543*		"	*0.831*		*65.4*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.05*		"	*1.66*		*63.3*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.596*		"	*0.831*		*71.7*	*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 BE91249 - EPA 3550C											
LCS (BE91249-BS1)								Prepared: 05/21/2019 Analyzed: 05/22/2019			
1,1-Biphenyl	0.515	0.0416	mg/kg wet	0.831		62.0	18-111				
1,2,4,5-Tetrachlorobenzene	0.676	0.0830	"	0.831		81.4	21-131				
1,2,4-Trichlorobenzene	0.428	0.0416	"	0.831		51.6	10-140				
1,2-Dichlorobenzene	0.504	0.0416	"	0.831		60.7	34-108				
1,2-Diphenylhydrazine (as Azobenzene)	0.516	0.0416	"	0.831		62.2	17-137				
1,3-Dichlorobenzene	0.495	0.0416	"	0.831		59.6	33-110				
1,4-Dichlorobenzene	0.514	0.0416	"	0.831		61.9	32-104				
2,3,4,6-Tetrachlorophenol	0.514	0.0830	"	0.831		61.9	30-130				
2,4,5-Trichlorophenol	0.484	0.0416	"	0.831		58.3	27-118				
2,4,6-Trichlorophenol	0.556	0.0416	"	0.831		67.0	31-120				
2,4-Dichlorophenol	0.559	0.0416	"	0.831		67.3	20-127				
2,4-Dimethylphenol	0.576	0.0416	"	0.831		69.3	14-132				
2,4-Dinitrophenol	0.540	0.0830	"	0.831		65.0	10-171				
2,4-Dinitrotoluene	0.510	0.0416	"	0.831		61.4	34-131				
2,6-Dinitrotoluene	0.543	0.0416	"	0.831		65.3	31-128				
2-Chloronaphthalene	0.492	0.0416	"	0.831		59.3	31-117				
2-Chlorophenol	0.655	0.0416	"	0.831		78.8	33-113				
2-Methylnaphthalene	0.582	0.0416	"	0.831		70.1	12-138				
2-Methylphenol	0.584	0.0416	"	0.831		70.4	10-136				
2-Nitroaniline	0.665	0.0830	"	0.831		80.0	27-132				
2-Nitrophenol	0.622	0.0416	"	0.831		74.9	17-129				
3- & 4-Methylphenols	0.539	0.0416	"	0.831		64.8	29-103				
3,3-Dichlorobenzidine	0.521	0.0416	"	0.831		62.7	22-149				
3-Nitroaniline	0.500	0.0830	"	0.831		60.2	20-133				
4,6-Dinitro-2-methylphenol	0.526	0.0830	"	0.831		63.4	10-143				
4-Bromophenyl phenyl ether	0.457	0.0416	"	0.831		55.0	29-120				
4-Chloro-3-methylphenol	0.615	0.0416	"	0.831		74.0	24-129				
4-Chloroaniline	0.407	0.0416	"	0.831		49.0	10-132				
4-Chlorophenyl phenyl ether	0.530	0.0416	"	0.831		63.8	27-124				
4-Nitroaniline	0.628	0.0830	"	0.831		75.6	16-128				
4-Nitrophenol	0.694	0.0830	"	0.831		83.6	10-141				
Acenaphthene	0.501	0.0416	"	0.831		60.4	30-121				
Acenaphthylene	0.526	0.0416	"	0.831		63.3	30-115				
Acetophenone	0.572	0.0416	"	0.831		68.9	20-112				
Aniline	0.642	0.166	"	0.831		77.2	10-119				
Anthracene	0.596	0.0416	"	0.831		71.8	34-118				
Atrazine	0.480	0.0416	"	0.831		57.8	26-112				
Benzaldehyde	0.760	0.0416	"	0.831		91.5	21-100				
Benzo(a)anthracene	0.582	0.0416	"	0.831		70.0	32-122				
Benzo(a)pyrene	0.595	0.0416	"	0.831		71.6	29-133				
Benzo(b)fluoranthene	0.583	0.0416	"	0.831		70.2	25-133				
Benzo(g,h,i)perylene	0.553	0.0416	"	0.831		66.6	10-143				
Benzo(k)fluoranthene	0.521	0.0416	"	0.831		62.7	25-128				
Benzoic acid	0.500	0.0416	"	0.947		52.8	10-140				
Benzyl alcohol	0.730	0.0416	"	0.831		87.9	30-115				
Benzyl butyl phthalate	0.764	0.0416	"	0.831		92.0	26-126				
Bis(2-chloroethoxy)methane	0.584	0.0416	"	0.831		70.4	19-132				
Bis(2-chloroethyl)ether	0.656	0.0416	"	0.831		79.0	19-125				
Bis(2-chloroisopropyl)ether	0.732	0.0416	"	0.831		88.1	20-135				
Bis(2-ethylhexyl)phthalate	0.728	0.0416	"	0.831		87.6	10-155				
Caprolactam	0.497	0.0830	"	0.831		59.8	10-127				

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 BE91249 - EPA 3550C											
LCS (BE91249-BS1)									Prepared: 05/21/2019 Analyzed: 05/22/2019		
Carbazole	0.577	0.0416	mg/kg wet	0.831		69.5	35-123				
Chrysene	0.554	0.0416	"	0.831		66.7	32-123				
Dibenzo(a,h)anthracene	0.559	0.0416	"	0.831		67.3	10-136				
Dibenzofuran	0.593	0.0416	"	0.831		71.4	29-121				
Diethyl phthalate	0.603	0.0416	"	0.831		72.6	34-116				
Dimethyl phthalate	0.599	0.0416	"	0.831		72.2	35-124				
Di-n-butyl phthalate	0.667	0.0416	"	0.831		80.3	31-116				
Di-n-octyl phthalate	0.870	0.0416	"	0.831		105	26-136				
Fluoranthene	0.569	0.0416	"	0.831		68.5	33-122				
Fluorene	0.493	0.0416	"	0.831		59.4	29-123				
Hexachlorobenzene	0.459	0.0416	"	0.831		55.3	21-124				
Hexachlorobutadiene	0.423	0.0416	"	0.831		50.9	10-149				
Hexachlorocyclopentadiene	0.260	0.0416	"	0.831		31.3	10-129				
Hexachloroethane	0.514	0.0416	"	0.831		61.9	28-108				
Indeno(1,2,3-cd)pyrene	0.623	0.0416	"	0.831		75.0	10-135				
Isophorone	0.550	0.0416	"	0.831		66.2	20-132				
Naphthalene	0.534	0.0416	"	0.831		64.3	23-124				
Nitrobenzene	0.550	0.0416	"	0.831		66.3	13-132				
N-Nitrosodimethylamine	0.834	0.0416	"	0.831		100	11-129				
N-nitroso-di-n-propylamine	0.630	0.0416	"	0.831		75.9	24-119				
N-Nitrosodiphenylamine	0.603	0.0416	"	0.831		72.6	22-152				
Pentachlorophenol	0.291	0.0416	"	0.831		35.0	10-139				
Phenanthrene	0.580	0.0416	"	0.831		69.8	33-123				
Phenol	0.692	0.0416	"	0.831		83.3	23-115				
Pyrene	0.601	0.0416	"	0.831		72.3	32-130				
Pyridine	0.424	0.166	"	0.831		51.0	10-91				
Surrogate: SURR: 2-Fluorophenol	*1.48*		"	*1.66*		*89.0*	*20-108*				
Surrogate: SURR: Phenol-d5	*1.27*		"	*1.66*		*76.2*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.677*		"	*0.831*		*81.6*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.578*		"	*0.831*		*69.6*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.981*		"	*1.66*		*59.1*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.643*		"	*0.831*		*77.4*	*24-116*				

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
Batch BE90993 - EPA SW846-3510C Low Level											
Blank (BE90993-BLK1)									Prepared: 05/16/2019 Analyzed: 05/17/2019		
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	"								
Surrogate: Decachlorobiphenyl	*0.212*		*"*	*0.200*		*106*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.200*		*"*	*0.200*		*100*	*30-150*				
LCS (BE90993-BS1)									Prepared: 05/16/2019 Analyzed: 05/17/2019		
4,4'-DDD	0.101	0.00400	ug/L	0.100		101	40-140			20	
4,4'-DDE	0.0919	0.00400	"	0.100		91.9	40-140			20	
4,4'-DDT	0.0712	0.00400	"	0.100		71.2	40-140			20	
Aldrin	0.0970	0.00400	"	0.100		97.0	40-140			20	
alpha-BHC	0.106	0.00400	"	0.100		106	40-140			20	
alpha-Chlordane	0.0872	0.00400	"	0.100		87.2	40-140			20	
beta-BHC	0.0922	0.00400	"	0.100		92.2	40-140			20	
delta-BHC	0.101	0.00400	"	0.100		101	40-140			20	
Dieldrin	0.0886	0.00200	"	0.100		88.6	40-140			20	
Endosulfan I	0.0927	0.00400	"	0.100		92.7	40-140			20	
Endosulfan II	0.0928	0.00400	"	0.100		92.8	40-140			20	
Endosulfan sulfate	0.0955	0.00400	"	0.100		95.5	40-140			20	
Endrin	0.0787	0.00400	"	0.100		78.7	40-140			20	
Endrin aldehyde	0.0868	0.0100	"	0.100		86.8	40-140			20	
Endrin ketone	0.0971	0.0100	"	0.100		97.1	40-140			20	
gamma-BHC (Lindane)	0.101	0.00400	"	0.100		101	40-140			20	
gamma-Chlordane	0.0906	0.0100	"	0.100		90.6	40-140			20	
Heptachlor	0.0959	0.00400	"	0.100		95.9	40-140			20	
Heptachlor epoxide	0.0891	0.00400	"	0.100		89.1	40-140			20	
Methoxychlor	0.0649	0.00400	"	0.100		64.9	40-140			20	
Surrogate: Decachlorobiphenyl	*0.214*		*"*	*0.200*		*107*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.209*		*"*	*0.200*		*105*	*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
Batch BE90993 - EPA SW846-3510C Low Level											
Matrix Spike (BE90993-MS1)	*Source sample: 19E0591-32 (MW002)								Prepared: 05/16/2019 Analyzed: 05/22/2019		
4,4'-DDD	0.112	0.00444	ug/L	0.111	ND	101	30-150			20	
4,4'-DDE	0.0935	0.00444	"	0.111	ND	84.1	30-150			20	
4,4'-DDT	0.114	0.00444	"	0.111	ND	103	30-150			20	
Aldrin	0.0906	0.00444	"	0.111	ND	81.6	30-150			20	
alpha-BHC	0.107	0.00444	"	0.111	ND	96.1	30-150			20	
alpha-Chlordane	0.0857	0.00444	"	0.111	ND	77.2	30-150			20	
beta-BHC	0.0977	0.00444	"	0.111	ND	88.0	30-150			20	
delta-BHC	0.112	0.00444	"	0.111	ND	101	30-150			20	
Dieldrin	0.0950	0.00222	"	0.111	ND	85.5	30-150			20	
Endosulfan I	0.0987	0.00444	"	0.111	ND	88.8	30-150			20	
Endosulfan II	0.104	0.00444	"	0.111	ND	93.3	30-150			20	
Endosulfan sulfate	0.114	0.00444	"	0.111	ND	103	30-150			20	
Endrin	0.102	0.00444	"	0.111	ND	92.1	30-150			20	
Endrin aldehyde	0.0991	0.0111	"	0.111	ND	89.2	30-150			20	
Endrin ketone	0.116	0.0111	"	0.111	ND	104	30-150			20	
gamma-BHC (Lindane)	0.102	0.00444	"	0.111	ND	91.8	30-150			20	
gamma-Chlordane	0.0898	0.0111	"	0.111	ND	80.8	30-150			20	
Heptachlor	0.0776	0.00444	"	0.111	ND	69.9	30-150			20	
Heptachlor epoxide	0.0970	0.00444	"	0.111	ND	87.3	30-150			20	
Methoxychlor	0.115	0.00444	"	0.111	ND	103	30-150			20	
Surrogate: Decachlorobiphenyl	*0.249*		*"*	*0.222*		*112*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.197*		*"*	*0.222*		*88.8*	*30-150*				
Matrix Spike Dup (BE90993-MSD1)	*Source sample: 19E0591-32 (MW002)								Prepared: 05/16/2019 Analyzed: 05/22/2019		
4,4'-DDD	0.120	0.00432	ug/L	0.108	ND	111	30-150		6.93	20	
4,4'-DDE	0.0977	0.00432	"	0.108	ND	90.4	30-150		4.41	20	
4,4'-DDT	0.125	0.00432	"	0.108	ND	116	30-150		9.17	20	
Aldrin	0.0940	0.00432	"	0.108	ND	87.0	30-150		3.68	20	
alpha-BHC	0.109	0.00432	"	0.108	ND	101	30-150		2.08	20	
alpha-Chlordane	0.0882	0.00432	"	0.108	ND	81.6	30-150		2.86	20	
beta-BHC	0.101	0.00432	"	0.108	ND	93.1	30-150		2.91	20	
delta-BHC	0.116	0.00432	"	0.108	ND	108	30-150		3.74	20	
Dieldrin	0.0987	0.00216	"	0.108	ND	91.3	30-150		3.78	20	
Endosulfan I	0.104	0.00432	"	0.108	ND	96.0	30-150		4.97	20	
Endosulfan II	0.110	0.00432	"	0.108	ND	101	30-150		5.61	20	
Endosulfan sulfate	0.129	0.00432	"	0.108	ND	119	30-150		11.8	20	
Endrin	0.109	0.00432	"	0.108	ND	101	30-150		6.10	20	
Endrin aldehyde	0.104	0.0108	"	0.108	ND	96.3	30-150		4.90	20	
Endrin ketone	0.128	0.0108	"	0.108	ND	118	30-150		9.78	20	
gamma-BHC (Lindane)	0.105	0.00432	"	0.108	ND	97.1	30-150		2.87	20	
gamma-Chlordane	0.0921	0.0108	"	0.108	ND	85.2	30-150		2.55	20	
Heptachlor	0.0876	0.00432	"	0.108	ND	81.0	30-150		12.0	20	
Heptachlor epoxide	0.0997	0.00432	"	0.108	ND	92.2	30-150		2.67	20	
Methoxychlor	0.129	0.00432	"	0.108	ND	120	30-150		11.9	20	
Surrogate: Decachlorobiphenyl	*0.263*		*"*	*0.216*		*122*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.206*		*"*	*0.216*		*95.2*	*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
Batch BE91200 - EPA 3550C											
Blank (BE91200-BLK1)											Prepared: 05/20/2019 Analyzed: 05/22/2019
4,4'-DDD	ND	0.000330	mg/kg wet								
4,4'-DDE	ND	0.000330	"								
4,4'-DDT	ND	0.000330	"								
Aldrin	ND	0.000330	"								
alpha-BHC	ND	0.000330	"								
alpha-Chlordane	ND	0.000330	"								
beta-BHC	ND	0.000330	"								
delta-BHC	ND	0.000330	"								
Dieldrin	ND	0.000330	"								
Endosulfan I	ND	0.000330	"								
Endosulfan II	ND	0.000330	"								
Endosulfan sulfate	ND	0.000330	"								
Endrin	ND	0.000330	"								
Endrin aldehyde	ND	0.000330	"								
Endrin ketone	ND	0.000330	"								
gamma-BHC (Lindane)	ND	0.000330	"								
gamma-Chlordane	ND	0.000330	"								
Heptachlor	ND	0.000330	"								
Heptachlor epoxide	ND	0.000330	"								
Methoxychlor	ND	0.000330	"								
Toxaphene	ND	0.0330	"								
Chlordane, total	ND	0.00660	"								
Surrogate: Decachlorobiphenyl	*0.105*		*"*	*0.0667*		*158*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0766*		*"*	*0.0667*		*115*	*30-150*				
LCS (BE91200-BS1)											Prepared: 05/20/2019 Analyzed: 05/22/2019
4,4'-DDD	0.0379	0.000330	mg/kg wet	0.0333		114	40-140				
4,4'-DDE	0.0368	0.000330	"	0.0333		110	40-140				
4,4'-DDT	0.0301	0.000330	"	0.0333		90.3	40-140				
Aldrin	0.0375	0.000330	"	0.0333		113	40-140				
alpha-BHC	0.0392	0.000330	"	0.0333		117	40-140				
alpha-Chlordane	0.0329	0.000330	"	0.0333		98.8	40-140				
beta-BHC	0.0353	0.000330	"	0.0333		106	40-140				
delta-BHC	0.0388	0.000330	"	0.0333		116	40-140				
Dieldrin	0.0350	0.000330	"	0.0333		105	40-140				
Endosulfan I	0.0374	0.000330	"	0.0333		112	40-140				
Endosulfan II	0.0382	0.000330	"	0.0333		115	40-140				
Endosulfan sulfate	0.0421	0.000330	"	0.0333		126	40-140				
Endrin	0.0295	0.000330	"	0.0333		88.6	40-140				
Endrin aldehyde	0.0372	0.000330	"	0.0333		112	40-140				
Endrin ketone	0.0389	0.000330	"	0.0333		117	40-140				
gamma-BHC (Lindane)	0.0378	0.000330	"	0.0333		113	40-140				
gamma-Chlordane	0.0348	0.000330	"	0.0333		104	40-140				
Heptachlor	0.0243	0.000330	"	0.0333		73.0	40-140				
Heptachlor epoxide	0.0352	0.000330	"	0.0333		106	40-140				
Methoxychlor	0.0264	0.000330	"	0.0333		79.2	40-140				
Surrogate: Decachlorobiphenyl	*0.102*		*"*	*0.0667*		*153*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0802*		*"*	*0.0667*		*120*	*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
Batch Y9E2237 - BE90092											
Performance Mix (Y9E2237-PEM1)								Prepared & Analyzed: 05/21/2019			
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.735		"	0.00			0-200				
4,4'-DDT	166		"	20000		0.831	0-200				
Endrin	90.8		"	10000		0.908	0-200				
Endrin aldehyde	1.42		"	0.00			0-200				
Endrin ketone	9.50		"	0.00			0-200				
Performance Mix (Y9E2237-PEM2)								Prepared & Analyzed: 05/21/2019			
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.615		"	0.00			0-200				
4,4'-DDT	185		"	200		92.7	0-200				
Endrin	114		"	100		114	0-200				
Endrin aldehyde	1.46		"	0.00			0-200				
Endrin ketone	10.4		"	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 BE90993 - EPA SW846-3510C Low Level											
Matrix Spike (BE90993-MS2)	*Source sample: 19E0591-32 (MW002)								Prepared: 05/16/2019 Analyzed: 05/17/2019		
Aroclor 1016	0.757	0.0556	ug/L	1.11	ND	68.1	40-140			20	
Aroclor 1260	0.942	0.0556	"	1.11	ND	84.8	40-140			20	
Surrogate: Tetrachloro-m-xylene	*0.164*		"	*0.222*		*74.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.224*		"	*0.222*		*101*	*30-150*				
Matrix Spike Dup (BE90993-MSD2)	*Source sample: 19E0591-32 (MW002)								Prepared: 05/16/2019 Analyzed: 05/17/2019		
Aroclor 1016	0.729	0.0541	ug/L	1.08	ND	67.4	40-140		3.77	20	
Aroclor 1260	0.923	0.0541	"	1.08	ND	85.4	40-140		2.03	20	
Surrogate: Tetrachloro-m-xylene	*0.161*		"	*0.216*		*74.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.216*		"	*0.216*		*100*	*30-150*				
Batch BE91139 - EPA 3550C											
Matrix Spike (BE91139-MS2)	*Source sample: 19E0591-04 (SB002 (4-6))								Prepared: 05/20/2019 Analyzed: 05/23/2019		
Aroclor 1016	0.443	0.0214	mg/kg dry	0.429	ND	103	40-140				
Aroclor 1260	0.388	0.0214	"	0.429	ND	90.5	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0858*		"	*0.0858*		*100*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0841*		"	*0.0858*		*98.0*	*30-120*				
Matrix Spike Dup (BE91139-MSD2)	*Source sample: 19E0591-04 (SB002 (4-6))								Prepared: 05/20/2019 Analyzed: 05/23/2019		
Aroclor 1016	0.458	0.0214	mg/kg dry	0.429	ND	107	40-140		3.37	50	
Aroclor 1260	0.409	0.0214	"	0.429	ND	95.3	40-140		5.19	50	
Surrogate: Tetrachloro-m-xylene	*0.0905*		"	*0.0858*		*106*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0853*		"	*0.0858*		*99.5*	*30-120*				

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 BE90912 - EPA 3015A											
Blank (BE90912-BLK1)											Prepared: 05/15/2019 Analyzed: 05/16/2019
Aluminum	ND	55.6	ug/L								
Barium	ND	27.8	"								
Calcium	ND	55.6	"								
Chromium	ND	5.56	"								
Cobalt	ND	4.44	"								
Copper	ND	22.2	"								
Iron	ND	278	"								
Lead	ND	5.56	"								
Magnesium	ND	55.6	"								
Manganese	ND	5.56	"								
Nickel	ND	11.1	"								
Potassium	ND	55.6	"								
Silver	ND	5.56	"								
Sodium	ND	556	"								
Vanadium	ND	11.1	"								
Zinc	ND	27.8	"								
LCS (BE90912-BS1)											Prepared: 05/15/2019 Analyzed: 05/16/2019
Aluminum	2.05		ug/mL	2.00		102	80-120				
Barium	2.03		"	2.00		102	80-120				
Calcium	0.963		"	1.00		96.3	80-120				
Chromium	0.196		"	0.200		98.0	80-120				
Cobalt	0.519		"	0.500		104	80-120				
Copper	0.254		"	0.250		102	80-120				
Iron	0.993		"	1.00		99.3	80-120				
Lead	0.497		"	0.500		99.5	80-120				
Magnesium	0.974		"	1.00		97.4	80-120				
Manganese	0.513		"	0.500		103	80-120				
Nickel	0.506		"	0.500		101	80-120				
Potassium	0.995		"	1.00		99.5	80-120				
Silver	0.0497		"	0.0500		99.4	80-120				
Sodium	1.09		"	1.00		109	80-120				
Vanadium	0.496		"	0.500		99.2	80-120				
Zinc	0.488		"	0.500		97.6	80-120				

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 BE90912 - EPA 3015A											
Duplicate (BE90912-DUP1)	*Source sample: 19E0591-32 (MW002)								Prepared: 05/15/2019 Analyzed: 05/16/2019		
Aluminum	467	55.6	ug/L		899				63.2	20	Non-dir.
Barium	83.6	27.8	"		83.2				0.404	20	
Calcium	173000	55.6	"		172000				0.441	20	
Chromium	ND	5.56	"		ND					20	
Cobalt	ND	4.44	"		ND					20	
Copper	ND	22.2	"		ND					20	
Iron	3900	278	"		3940				1.07	20	
Lead	16.0	5.56	"		16.6				3.49	20	
Magnesium	267000	55.6	"		265000				0.865	20	
Manganese	413	5.56	"		409				0.981	20	
Nickel	ND	11.1	"		ND					20	
Potassium	97200	55.6	"		95600				1.65	20	
Silver	ND	5.56	"		ND					20	
Sodium	2710000	556	"		2690000				0.886	20	
Vanadium	ND	11.1	"		ND					20	
Zinc	46.6	27.8	"		59.0				23.5	20	Non-dir.
Matrix Spike (BE90912-MS1)	*Source sample: 19E0591-32 (MW002)								Prepared: 05/15/2019 Analyzed: 05/16/2019		
Aluminum	2570	55.6	ug/L	2220	899	75.3	75-125				
Barium	2200	27.8	"	2220	83.2	95.2	75-125				
Calcium	169000	55.6	"	1110	172000	NR	75-125	Low Bias			
Chromium	208	5.56	"	222	ND	93.6	75-125				
Cobalt	536	4.44	"	556	ND	96.4	75-125				
Copper	313	22.2	"	278	ND	113	75-125				
Iron	4910	278	"	1110	3940	86.8	75-125				
Lead	523	5.56	"	556	16.6	91.1	75-125				
Magnesium	261000	55.6	"	1110	265000	NR	75-125	Low Bias			
Manganese	919	5.56	"	556	409	91.8	75-125				
Nickel	565	11.1	"	556	ND	102	75-125				
Potassium	95400	55.6	"	1110	95600	NR	75-125	Low Bias			
Silver	57.2	5.56	"	55.6	ND	103	75-125				
Sodium	2630000	556	"	1110	2690000	NR	75-125	Low Bias			
Vanadium	541	11.1	"	556	ND	97.4	75-125				
Zinc	582	27.8	"	556	59.0	94.2	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
Batch BE91114 - EPA 3015A											
Blank (BE91114-BLK1)											Prepared: 05/17/2019 Analyzed: 05/20/2019
Aluminum - Dissolved	ND	0.0556	mg/L								
Barium - Dissolved	ND	0.0278	"								
Calcium - Dissolved	ND	0.0556	"								
Chromium - Dissolved	ND	0.00556	"								
Cobalt - Dissolved	ND	0.00444	"								
Copper - Dissolved	ND	0.0222	"								
Iron - Dissolved	ND	0.278	"								
Lead - Dissolved	ND	0.00556	"								
Magnesium - Dissolved	ND	0.0556	"								
Manganese - Dissolved	ND	0.00556	"								
Nickel - Dissolved	ND	0.0111	"								
Potassium - Dissolved	ND	0.0556	"								
Silver - Dissolved	ND	0.00556	"								
Sodium - Dissolved	ND	0.556	"								
Vanadium - Dissolved	ND	0.0111	"								
Zinc - Dissolved	ND	0.0278	"								
LCS (BE91114-BS1)											Prepared: 05/17/2019 Analyzed: 05/20/2019
Aluminum - Dissolved	1.87		ug/mL	2.00		93.7	80-120				
Barium - Dissolved	1.84		"	2.00		92.0	80-120				
Calcium - Dissolved	0.852		"	1.00		85.2	80-120				
Chromium - Dissolved	0.175		"	0.200		87.4	80-120				
Cobalt - Dissolved	0.463		"	0.500		92.6	80-120				
Copper - Dissolved	0.233		"	0.250		93.1	80-120				
Iron - Dissolved	0.924		"	1.00		92.4	80-120				
Lead - Dissolved	0.447		"	0.500		89.3	80-120				
Magnesium - Dissolved	0.899		"	1.00		89.9	80-120				
Manganese - Dissolved	0.459		"	0.500		91.9	80-120				
Nickel - Dissolved	0.453		"	0.500		90.7	80-120				
Potassium - Dissolved	0.902		"	1.00		90.2	80-120				
Silver - Dissolved	0.0461		"	0.0500		92.3	80-120				
Sodium - Dissolved	0.940		"	1.00		94.0	80-120				
Vanadium - Dissolved	0.450		"	0.500		90.0	80-120				
Zinc - Dissolved	0.427		"	0.500		85.3	80-120				

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 BE91114 - EPA 3015A											
Duplicate (BE91114-DUP1)	*Source sample: 19E0591-32 (MW002)								Prepared: 05/17/2019 Analyzed: 05/20/2019		
Aluminum - Dissolved	ND	0.0556	mg/L		0.0755					20	
Barium - Dissolved	0.0685	0.0278	"		0.0685				0.106	20	
Calcium - Dissolved	163	0.0556	"		162				0.683	20	
Chromium - Dissolved	ND	0.00556	"		ND					20	
Cobalt - Dissolved	ND	0.00444	"		ND					20	
Copper - Dissolved	ND	0.0222	"		ND					20	
Iron - Dissolved	ND	0.278	"		ND					20	
Lead - Dissolved	ND	0.00556	"		ND					20	
Magnesium - Dissolved	249	0.0556	"		248				0.177	20	
Manganese - Dissolved	0.395	0.00556	"		0.393				0.472	20	
Nickel - Dissolved	ND	0.0111	"		ND					20	
Potassium - Dissolved	87.9	0.0556	"		88.4				0.582	20	
Silver - Dissolved	ND	0.00556	"		ND					20	
Sodium - Dissolved	2590	0.556	"		2480				4.54	20	
Vanadium - Dissolved	ND	0.0111	"		ND					20	
Zinc - Dissolved	ND	0.0278	"		0.0302					20	
Matrix Spike (BE91114-MS1)	*Source sample: 19E0591-32 (MW002)								Prepared: 05/17/2019 Analyzed: 05/20/2019		
Barium - Dissolved	2.06	0.0278	mg/L	2.22	0.0685	89.6	75-125				
Chromium - Dissolved	0.204	0.00556	"	0.222	ND	91.9	75-125				
Cobalt - Dissolved	0.500	0.00444	"	0.556	ND	89.9	75-125				
Copper - Dissolved	0.295	0.0222	"	0.278	ND	106	75-125				
Iron - Dissolved	1.06	0.278	"	1.11	ND	95.0	75-125				
Lead - Dissolved	0.469	0.00556	"	0.556	ND	84.5	75-125				
Manganese - Dissolved	0.888	0.00556	"	0.556	0.393	89.2	75-125				
Nickel - Dissolved	0.530	0.0111	"	0.556	ND	95.4	75-125				
Silver - Dissolved	0.0571	0.00556	"	0.0556	ND	103	75-125				
Vanadium - Dissolved	0.509	0.0111	"	0.556	ND	91.5	75-125				
Zinc - Dissolved	0.505	0.0278	"	0.556	0.0302	85.4	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 BE91204 - EPA 3050B											
Blank (BE91204-BLK1)									Prepared & Analyzed: 05/20/2019		
Aluminum	ND	5.00	mg/kg wet								
Antimony	ND	2.50	"								
Arsenic	ND	1.50	"								
Barium	ND	2.50	"								
Beryllium	0.062	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 (BE91204-DUP1)	*Source sample: 19E0591-04 (SB002 (4-6))								Prepared & Analyzed: 05/20/2019		
Aluminum	6850	6.45	mg/kg dry		5850				15.7	35	
Antimony	ND	3.23	"		ND					35	
Arsenic	6.48	1.94	"		7.26				11.4	35	
Barium	145	3.23	"		245				51.4	35	Non-dir.
Beryllium	ND	0.065	"		0.113					35	
Cadmium	1.05	0.387	"		1.18				11.3	35	
Calcium	14800	6.45	"		19900				29.3	35	
Chromium	18.2	0.645	"		17.0				6.46	35	
Cobalt	8.93	0.516	"		8.27				7.67	35	
Copper	200	2.58	"		151				27.4	35	
Iron	15500	32.3	"		16400				5.71	35	
Lead	303	0.645	"		459				40.9	35	Non-dir.
Magnesium	7710	6.45	"		7800				1.10	35	
Manganese	290	0.645	"		266				8.55	35	
Nickel	20.0	1.29	"		18.9				5.39	35	
Potassium	2390	6.45	"		1500				45.5	35	Non-dir.
Selenium	ND	3.23	"		ND					35	
Silver	ND	0.645	"		ND					35	
Sodium	262	64.5	"		292				10.8	35	
Thallium	ND	3.23	"		ND					35	
Vanadium	25.5	1.29	"		25.7				0.922	35	
Zinc	389	3.23	"		446				13.8	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
Batch BE91204 - EPA 3050B											
Matrix Spike (BE91204-MS1)	*Source sample: 19E0591-04 (SB002 (4-6))							Prepared & Analyzed: 05/20/2019			
Aluminum	5920	6.45	mg/kg dry	258	5850	24.6	75-125	Low Bias			
Antimony	22.8	3.23	"	32.3	ND	70.5	75-125	Low Bias			
Arsenic	240	1.94	"	258	7.26	90.2	75-125				
Barium	431	3.23	"	258	245	72.0	75-125	Low Bias			
Beryllium	6.24	0.065	"	6.45	0.113	94.9	75-125				
Cadmium	6.70	0.387	"	6.45	1.18	85.7	75-125				
Calcium	22000	6.45	"	129	19900	NR	75-125	High Bias			
Chromium	41.4	0.645	"	25.8	17.0	94.3	75-125				
Cobalt	69.2	0.516	"	64.5	8.27	94.5	75-125				
Copper	195	2.58	"	32.3	151	137	75-125	High Bias			
Iron	15900	32.3	"	129	16400	NR	75-125	Low Bias			
Lead	408	0.645	"	64.5	459	NR	75-125	Low Bias			
Magnesium	10900	6.45	"	129	7800	NR	75-125	High Bias			
Manganese	357	0.645	"	64.5	266	142	75-125	High Bias			
Nickel	84.1	1.29	"	64.5	18.9	101	75-125				
Potassium	1730	6.45	"	129	1500	177	75-125	High Bias			
Selenium	208	3.23	"	258	ND	80.4	75-125				
Silver	3.05	0.645	"	6.45	ND	47.2	75-125	Low Bias			
Sodium	444	64.5	"	129	292	118	75-125				
Thallium	248	3.23	"	258	ND	96.1	75-125				
Vanadium	85.5	1.29	"	64.5	25.7	92.7	75-125				
Zinc	414	3.23	"	64.5	446	NR	75-125	Low Bias			
Reference (BE91204-SRM1)								Prepared & Analyzed: 05/20/2019			
Aluminum	7480	5.00	mg/kg wet	8360		89.4	50.2-149.5				
Antimony	103	2.50	"	89.6		115	19.3-258.9				
Arsenic	209	1.50	"	202		103	69.8-130.2				
Barium	285	2.50	"	270		106	75.2-125.2				
Beryllium	106	0.050	"	96.8		110	75-125				
Cadmium	141	0.300	"	141		100	74.5-124.8				
Calcium	4660	5.00	"	4700		99.2	72.6-127.7				
Chromium	176	0.500	"	167		105	70.1-129.9				
Cobalt	191	0.400	"	174		109	74.7-124.7				
Copper	129	2.00	"	108		119	74.7-124.1				
Iron	12600	25.0	"	14700		85.8	36.4-163.9				
Lead	73.9	0.500	"	73.8		100	68.4-131.6				
Magnesium	2190	5.00	"	2310		94.8	61.9-138.1				
Manganese	353	0.500	"	330		107	75.2-124.8				
Nickel	108	1.00	"	89.4		121	69.9-129.8				
Potassium	2210	5.00	"	2240		98.6	60.7-139.7				
Selenium	28.9	2.50	"	49.9		58.0	58.1-141.7	Low Bias			
Silver	76.5	0.500	"	71.1		108	70.7-129.3				
Sodium	220	50.0	"	195		113	45.5-154.4				
Thallium	61.6	2.50	"	58.5		105	60.9-139.3				
Vanadium	56.2	1.00	"	58.2		96.5	57.4-142.6				
Zinc	258	2.50	"	264		97.7	70.1-130.3				

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 BE91205 - EPA 3050B											
Blank (BE91205-BLK1)									Prepared & Analyzed: 05/20/2019		
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 (BE91205-DUP1)	*Source sample: 19E0591-07 (SB003 (6-8))								Prepared & Analyzed: 05/20/2019		
Aluminum	11000	5.62	mg/kg dry		10100				7.90	35	
Antimony	ND	2.81	"		ND					35	
Arsenic	ND	1.69	"		3.78					35	
Barium	123	2.81	"		103				17.2	35	
Beryllium	ND	0.056	"		ND					35	
Cadmium	ND	0.337	"		ND					35	
Calcium	3400	5.62	"		2930				14.9	35	
Chromium	23.0	0.562	"		22.0				4.18	35	
Cobalt	13.1	0.449	"		11.9				9.07	35	
Copper	29.1	2.25	"		24.5				17.1	35	
Iron	24900	28.1	"		25600				2.75	35	
Lead	138	0.562	"		53.9				87.4	35	Non-dir.
Magnesium	4350	5.62	"		3830				12.6	35	
Manganese	409	0.562	"		457				11.1	35	
Nickel	24.3	1.12	"		22.5				7.41	35	
Potassium	3660	5.62	"		3390				7.68	35	
Selenium	ND	2.81	"		ND					35	
Silver	ND	0.562	"		ND					35	
Sodium	340	56.2	"		306				10.6	35	
Thallium	ND	2.81	"		ND					35	
Vanadium	32.3	1.12	"		30.8				4.55	35	
Zinc	82.6	2.81	"		57.6				35.7	35	Non-dir.

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 BE91205 - EPA 3050B											
Matrix Spike (BE91205-MS1)	*Source sample: 19E0591-07 (SB003 (6-8))							Prepared & Analyzed: 05/20/2019			
Aluminum	11300	5.62	mg/kg dry	225	10100	538	75-125	High Bias			
Antimony	6.96	2.81	"	28.1	ND	24.8	75-125	Low Bias			
Arsenic	197	1.69	"	225	3.78	86.1	75-125				
Barium	322	2.81	"	225	103	97.1	75-125				
Beryllium	5.01	0.056	"	5.62	ND	89.1	75-125				
Cadmium	5.20	0.337	"	5.62	ND	92.6	75-125				
Calcium	3520	5.62	"	112	2930	529	75-125	High Bias			
Chromium	47.9	0.562	"	22.5	22.0	115	75-125				
Cobalt	67.0	0.449	"	56.2	11.9	98.1	75-125				
Copper	56.8	2.25	"	28.1	24.5	115	75-125				
Iron	23500	28.1	"	112	25600	NR	75-125	Low Bias			
Lead	137	0.562	"	56.2	53.9	147	75-125	High Bias			
Magnesium	4810	5.62	"	112	3830	871	75-125	High Bias			
Manganese	405	0.562	"	56.2	457	NR	75-125	Low Bias			
Nickel	80.7	1.12	"	56.2	22.5	103	75-125				
Potassium	4050	5.62	"	112	3390	584	75-125	High Bias			
Selenium	148	2.81	"	225	ND	66.0	75-125	Low Bias			
Silver	ND	0.562	"	5.62	ND		75-125	Low Bias			
Sodium	413	56.2	"	112	306	95.5	75-125				
Thallium	195	2.81	"	225	ND	86.7	75-125				
Vanadium	86.5	1.12	"	56.2	30.8	99.1	75-125				
Zinc	123	2.81	"	56.2	57.6	117	75-125				
Reference (BE91205-SRM1)								Prepared & Analyzed: 05/20/2019			
Aluminum	7860	5.00	mg/kg wet	8360		94.0	50.2-149.5				
Antimony	110	2.50	"	89.6		122	19.3-258.9				
Arsenic	227	1.50	"	202		113	69.8-130.2				
Barium	312	2.50	"	270		115	75.2-125.2				
Beryllium	110	0.050	"	96.8		114	75-125				
Cadmium	160	0.300	"	141		113	74.5-124.8				
Calcium	4990	5.00	"	4700		106	72.6-127.7				
Chromium	184	0.500	"	167		110	70.1-129.9				
Cobalt	203	0.400	"	174		117	74.7-124.7				
Copper	129	2.00	"	108		119	74.7-124.1				
Iron	13400	25.0	"	14700		91.3	36.4-163.9				
Lead	83.2	0.500	"	73.8		113	68.4-131.6				
Magnesium	2430	5.00	"	2310		105	61.9-138.1				
Manganese	373	0.500	"	330		113	75.2-124.8				
Nickel	117	1.00	"	89.4		131	69.9-129.8	High Bias			
Potassium	2320	5.00	"	2240		103	60.7-139.7				
Selenium	31.8	2.50	"	49.9		63.7	58.1-141.7				
Silver	78.6	0.500	"	71.1		111	70.7-129.3				
Sodium	216	50.0	"	195		111	45.5-154.4				
Thallium	69.0	2.50	"	58.5		118	60.9-139.3				
Vanadium	58.9	1.00	"	58.2		101	57.4-142.6				
Zinc	286	2.50	"	264		108	70.1-130.3				

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 BE90913 - EPA 3015A											
Blank (BE90913-BLK1)											Prepared: 05/15/2019 Analyzed: 05/16/2019
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 (BE90913-BS1)											Prepared: 05/15/2019 Analyzed: 05/16/2019
Antimony	35.4		ug/L	50.0		70.8	80-120	Low Bias			
Arsenic	45.9		"	50.0		91.8	80-120				
Beryllium	47.2		"	50.0		94.4	80-120				
Cadmium	44.7		"	50.0		89.4	80-120				
Selenium	40.2		"	50.0		80.4	80-120				
Thallium	47.2		"	50.0		94.3	80-120				
Duplicate (BE90913-DUP1)	*Source sample: 19E0591-32 (MW002)										Prepared: 05/15/2019 Analyzed: 05/16/2019
Antimony	ND	1.11	ug/L		1.13					20	
Arsenic	1.61	1.11	"		1.32				19.9	20	
Beryllium	ND	0.333	"		ND					20	
Cadmium	ND	0.556	"		ND					20	
Selenium	70.6	1.11	"		84.5				17.9	20	
Thallium	ND	1.11	"		ND					20	
Matrix Spike (BE90913-MS1)	*Source sample: 19E0591-32 (MW002)										Prepared: 05/15/2019 Analyzed: 05/16/2019
Antimony	37.1		ug/L	50.0	1.02	72.1	75-125	Low Bias			
Arsenic	48.2		"	50.0	1.19	94.0	75-125				
Beryllium	22.6		"	50.0	0.010	45.2	75-125	Low Bias			
Cadmium	42.8		"	50.0	0.265	85.0	75-125				
Selenium	132		"	50.0	76.0	113	75-125				
Thallium	46.1		"	50.0	0.111	92.0	75-125				

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 BE91115 - EPA 3015A											
Blank (BE91115-BLK1)								Prepared: 05/17/2019 Analyzed: 05/20/2019			
Antimony - Dissolved	ND	1.11	ug/L								
Arsenic - Dissolved	ND	1.11	"								
Beryllium - Dissolved	ND	0.333	"								
Cadmium - Dissolved	ND	0.556	"								
Selenium - Dissolved	ND	1.11	"								
Thallium - Dissolved	ND	1.11	"								
LCS (BE91115-BS1)								Prepared: 05/17/2019 Analyzed: 05/20/2019			
Antimony - Dissolved	37.9		ug/L	50.0		75.7	80-120	Low Bias			
Arsenic - Dissolved	50.2		"	50.0		100	80-120				
Beryllium - Dissolved	46.8		"	50.0		93.7	80-120				
Cadmium - Dissolved	46.4		"	50.0		92.9	80-120				
Selenium - Dissolved	48.1		"	50.0		96.3	80-120				
Thallium - Dissolved	52.5		"	50.0		105	80-120				
Duplicate (BE91115-DUP1)	*Source sample: 19E0591-32 (MW002)							Prepared: 05/17/2019 Analyzed: 05/20/2019			
Antimony - Dissolved	ND	1.11	ug/L		ND					20	
Arsenic - Dissolved	ND	1.11	"		ND					20	
Beryllium - Dissolved	ND	0.333	"		ND					20	
Cadmium - Dissolved	ND	0.556	"		ND					20	
Selenium - Dissolved	68.9	1.11	"		58.9				15.5	20	
Thallium - Dissolved	ND	1.11	"		ND					20	
Matrix Spike (BE91115-MS1)	*Source sample: 19E0591-32 (MW002)							Prepared: 05/17/2019 Analyzed: 05/20/2019			
Antimony - Dissolved	43.8		ug/L	50.0	0.982	85.6	75-125				
Arsenic - Dissolved	52.2		"	50.0	-0.931	104	75-125				
Beryllium - Dissolved	25.3		"	50.0	-0.006	50.5	75-125	Low Bias			
Cadmium - Dissolved	48.4		"	50.0	0.266	96.2	75-125				
Selenium - Dissolved	105		"	50.0	53.0	104	75-125				
Thallium - Dissolved	54.4		"	50.0	0.211	108	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 BE90989 - EPA 7473 water											
Blank (BE90989-BLK1)								Prepared & Analyzed: 05/16/2019			
Mercury	ND	0.20	ug/L								
Duplicate (BE90989-DUP1)	*Source sample: 19E0591-32 (MW002)							Prepared & Analyzed: 05/16/2019			
Mercury	ND	0.20	ug/L		ND					20	
Matrix Spike (BE90989-MS1)	*Source sample: 19E0591-32 (MW002)							Prepared & Analyzed: 05/16/2019			
Mercury	0.00848		mg/L	0.0100	0.00	84.8	75-125				
Reference (BE90989-SRM1)								Prepared & Analyzed: 05/16/2019			
Mercury	0.00845		mg/L	0.0100		84.5	70-130				
Batch BE91266 - EPA 7473 water											
Blank (BE91266-BLK1)								Prepared & Analyzed: 05/21/2019			
Mercury - Dissolved	ND	0.0002000	mg/L								
Duplicate (BE91266-DUP1)	*Source sample: 19E0591-32 (MW002)							Prepared & Analyzed: 05/21/2019			
Mercury - Dissolved	ND	0.0002000	mg/L		ND					20	
Matrix Spike (BE91266-MS1)	*Source sample: 19E0591-32 (MW002)							Prepared & Analyzed: 05/21/2019			
Mercury - Dissolved	0.008992		mg/L	0.0100	0.000	89.9	75-125				
Reference (BE91266-SRM1)								Prepared & Analyzed: 05/21/2019			
Mercury - Dissolved	0.009233		mg/L	0.0100		92.3	70-130				
Batch BE91342 - EPA 7473 soil											
Blank (BE91342-BLK1)								Prepared & Analyzed: 05/22/2019			
Mercury	ND	0.0300	mg/kg wet								

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 BE91342 - EPA 7473 soil											
Duplicate (BE91342-DUP1)	*Source sample: 19E0591-04 (SB002 (4-6))							Prepared & Analyzed: 05/22/2019			
Mercury	0.521	0.0387	mg/kg dry		0.616				16.6	35	
Matrix Spike (BE91342-MS1)	*Source sample: 19E0591-04 (SB002 (4-6))							Prepared & Analyzed: 05/22/2019			
Mercury	1.05		mg/kg	0.500	0.477	114	75-125				
Reference (BE91342-SRM1)								Prepared & Analyzed: 05/22/2019			
Mercury	3.3790		mg/kg	3.71		91.1	65-135				
Batch BE91343 - EPA 7473 soil											
Blank (BE91343-BLK1)								Prepared & Analyzed: 05/22/2019			
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BE91343-DUP1)	*Source sample: 19E0591-07 (SB003 (6-8))							Prepared & Analyzed: 05/22/2019			
Mercury	0.450	0.0337	mg/kg dry		0.323				33.1	35	
Matrix Spike (BE91343-MS1)	*Source sample: 19E0591-07 (SB003 (6-8))							Prepared & Analyzed: 05/22/2019			
Mercury	0.768		mg/kg	0.500	0.287	96.1	75-125				
Reference (BE91343-SRM1)								Prepared & Analyzed: 05/22/2019			
Mercury	3.7417		mg/kg	3.71		101	65-135				
Batch BE91382 - EPA 7473 soil											
Blank (BE91382-BLK1)								Prepared & Analyzed: 05/22/2019			
Mercury	ND	0.0300	mg/kg wet								

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 BE91382 - EPA 7473 soil											
Duplicate (BE91382-DUP1)	*Source sample: 19E0591-22 (SB008 (6-8))							Prepared & Analyzed: 05/22/2019			
Mercury	0.300	0.0409	mg/kg dry		0.244				20.9	35	
Matrix Spike (BE91382-MS1)	*Source sample: 19E0591-22 (SB008 (6-8))							Prepared & Analyzed: 05/22/2019			
Mercury	0.640		mg/kg	0.500	0.179	92.2	75-125				
Reference (BE91382-SRM1)								Prepared & Analyzed: 05/22/2019			
Mercury	3.1821		mg/kg	3.71		85.8	65-135				

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
Batch BE91045 - % Solids Prep											
Duplicate (BE91045-DUP1)	*Source sample: 19E0591-04 (SB002 (4-6))								Prepared: 05/16/2019 Analyzed: 05/17/2019		
% Solids	79.4	0.100	%		77.5				2.41	20	
Batch BE91124 - % Solids Prep											
Duplicate (BE91124-DUP1)	*Source sample: 19E0591-07 (SB003 (6-8))								Prepared: 05/17/2019 Analyzed: 05/18/2019		
% Solids	90.3	0.100	%		89.0				1.47	20	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
19E0591-25	SB009 (6-8)	40mL Vial with Stir Bar-Cool 4° C
19E0591-26	SB009 (2-4)	40mL Vial with Stir Bar-Cool 4° C
19E0591-27	SB009 (8-10)	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
19E0591-31	MW001	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19E0591-32	MW002	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19E0591-33	MW003	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19E0591-34	MW004	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19E0591-37	DUPE003	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19E0591-38	SB009 (8-10) E	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
19E0591-39	SB009 (8-10) N	40mL Vial with Stir Bar-Cool 4° C
19E0591-40	SB009 (8-10) W	40mL Vial with Stir Bar-Cool 4° C
19E0591-41	FB001	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19E0591-42	EB001	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19E0591-43	FB002	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19E0591-44	EB002	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19E0591-45	FB003	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19E0591-46	EB003	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19E0591-47	TB001	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19E0591-48	TB002	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

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.
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).
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
IS-01	This internal standard did not meet acceptance criteria. The sample was reanalyzed to confirm matrix interference.
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-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
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-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.
QM-11	The spike recovery or RPD may not be available or within QC limits because of sample dilution due to high analyte concentration and/or matrix interference.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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.
QR-04	The RPD exceeded control limits for the LCS/LCSD QC.
S-01	The surrogate recovery for this sample may not be available due to sample dilution required from high analyte concentration and/or matrix interferences.
S-08	The recovery of this surrogate was outside of QC limits.
S-09	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect confirmed by re-extraction and re-analysis of the sample.
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.

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Field Chain-of-Custody Record

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.

YORK Project No. 19E0591

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: PWGC	Company:	Company:	LST1802	RUSH - Next Day
Address: 630 Johnson Ave, Bohemia NY 11716	Address:	Address:	YOUR Project Name: LST1802	RUSH - Two Day
Phone.: 631-589-6353	Phone.:	Phone.:		RUSH - Three Day
Contact: Dan Haug	Contact:	Contact:		RUSH - Four Day
E-mail: DHaug@pwgrosser.com	E-mail:	E-mail:	YOUR PO#:	Standard (5-7 Day) X

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.

Janelle Cooley

Samples Collected by: (print your name above and sign below)

Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
S - soil / solid	New York X	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
GW - groundwater	New Jersey	QA Report	CT RCP DQA/DUE	EQuIS (Standard)	
DW - drinking water	Connecticut	~~NY ASP A Package~~	NJDEP Reduced Deliverables	NYSDEC EQuIS	
WW - wastewater	Pennsylvania X*	NY ASP B Package		NJDEP SRP HazSite	
O - Oil ⋮ Other	Other		NJDKQP	Other:	

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB001 (0-2)	S	915	SVOCs, metals, Pest, PCBs	
SB001 (2-4)	S	925	SVOCs, metals, Pest, PCBs	
SB001 (4-6)	S	920	SVOCs, metals, Pest, PCBs	
SB002 (4-6), SB002(4-6)MS, SB002(4-6)MSD	S	830	SVOCs, metals, Pest, PCBs	
SB002 (6-8)	S	850	SVOCs, metals, Pest, PCBs	
SB002 (0-2)	S	845	SVOCs, metals, Pest, PCBs	
SB003 (6-8), SB003(6-8)MS, SB003(6-8)MSD	S	735	SVOCs, metals, Pest, PCBs	
SB003 (10-12)	S	745	SVOCs, metals, Pest, PCBs	
SB003 (0-2)	S	740	SVOCs, metals, Pest, PCBs	
SB004 (0-2)	S	930	SVOCs, metals, Pest, PCBs.	

Comments:

Proposal from 4/29/19

Preservation: (check all that apply)

HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction

Field Filtered ___
Lab to Filter X

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
	5/13/19 1300 ~~10/10/19 1500~~	KBakowork	5/13/19 230PM	KBakowork	5/13/19
Samples Relinquished by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by / Date/Time	Temp. Received at Lab
				PJGrace 5-13-19 1744	e 2.0 Degrees C

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
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Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 19E0591

YOUR Information	Report To:	Invoice To:
Company: PWGC	Company:	Company:
Address: 630 Johnson Ave Bohemia NY 11716	Address:	Address:
Phone.: 631-589-6353	Phone.:	Phone.:
Contact: Dan Haug	Contact:	Contact:
E-mail: DHaug@PWGrosser.com	E-mail:	E-mail:

YOUR Project Number: LST1802

YOUR Project Name: LST1802

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

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) Janelle Cooley

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil ¦ Other

Samples From: New York X; New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections): Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

~~St~~ Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB004 (4-6)	S	935 5/10/19	SVOCs, metals, Pest, PCBs	
SB004 (2-4)	S	940 5/10/19	SVOCs, metals, Pest, PCBs	
SB005 (2-4)	S	815 5/10/19	SVOCs, metals, Pest, PCBs	
SB005 (0-2)	S	825 5/10/19	SVOCs, metals, Pest, PCBs	
SB005 (8-10)	S	820 5/10/19	SVOCs, metals, Pest, PCBs	
SB006 (0-2)	S	900 5/10/19	SVOCs, metals, Pest, PCBs	
SB006 (4-6)	S	905 5/10/19	SVOCs, metals, Pest, PCBs.	
SB006 (6-8)	S	910 5/10/19	SVOCs, metals, Pest, PCBs	
SB007 (8-10)	S	1250 5/10/19	SVOCs, metals	
SB007 (12-14)	S	1300 5/10/19	SVOCs metals	

Comments: Proposal from 4/29/19

Preservation: (check all that apply) HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction: Field Filtered ___ Lab to Filter X

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
	10/10/19 1500	KBakyork	5/13/19 2300pm	KBakyork	5/13/19
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				Grace	5-13-19 1744 @ 2.0 Degrees C

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Field Chain-of-Custody Record

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YORK Project No. 19E0591

YOUR Information	Report To:	Invoice To:
Company: PWGS	Company:	Company:
Address: 630 Johnson Ave Bohemia NY 11716	Address:	Address:
Phone.: 631-589-6353	Phone.:	Phone.:
Contact: Dan Haug	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: LST1802

YOUR Project Name: LST1802

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

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.

Janelle Cooley

Samples Collected by: (print your name above and sign below)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil ¦ Other

Samples From

New York	
New Jersey	
Connecticut	
Pennsylvania	X
Other	

Report / EDD Type (circle selections)

Summary Report	CT RCP	Standard Excel EDD
QA Report	CT RCP DQA/DUE	EQuIS (Standard)
NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQuIS
NY ASP B Package		NJDEP SRP HazSite
	NJDKQP	Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB007 (0-2)		1240	SVOCs, metals	
SB008 (6-8)		700	SVOCs, metals	
SB008 (0-2)		705	SVOCs, metals	
SB008 (4-6)		710	SVOCs; metals	
SB009 (6-8)		810	SVOCs, metals, ~~Pest, PCBs~~, VOCs	
SB009 (2-4)		800	SVOCs, metals, ~~Pest, PCBs~~, VOCs	
SB009 (8-10)		805	SVOCs, metals, ~~Pest, PCBs~~, VOCs	
SB010 (0-2)		1345	SVOCs, metals	
SB010 (6-8)		1350	SVOCs, metals	
SB010 (2-4)		1330	SVOCs, metals	

Comments: Proposal from 4/29/19

Preservation: (check all that apply)

HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction

Field Filtered ___
Lab to Filter X

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
	10/10/19 1500	KBarkyork	5/13/19 2300hrs	KBarkyork	5/13/19
Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by / Date/Time	Temp. Received at Lab
				Grace 5-13-19	17.4 °C 2.0 Degrees C

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YORK Project No. 19E0591

YOUR Information	Report To:	Invoice To:
Company: PWGC	Company:	Company:
Address: 630 Johnson Ave Bohemia NY	Address:	Address:
Phone.: 631-589-6353	Phone.:	Phone.:
Contact: Dan Haug	Contact:	Contact:
E-mail: DHaug@PWGrosser.com	E-mail:	E-mail:

YOUR Project Number: LST1802

YOUR Project Name: LST1802

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

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) Janelle Cooley

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil ; Other

Samples From: New York X; New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections): Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
MW001	W	730	SVOCs, Metals (total, dissolved) Pest, PCBs, VOCs	
MW002 / MW002(MS) / MW002(MSD)	W	1000	SVOCs, Metals (total, dissolved) Pest, PCBs, VOCs	
MW003	W	~~730~~ 1100	SVOCs, Metals (total, dissolved) Pest, PCBs, VOCs	
MW004	W	1215	SVOCs, Metals (total, dissolved) Pest, PCBs, VOCs	
DUPE001	S	~~1215~~ NM	SVOCs, metals	
DUPE002	S	NM	SVOCs, metals	
DUPE003	W	NM	SVOCs, Metals (total, dissolved) Pest PCBs, VOCs.	
SB009(8-10)E	S	1135	VOC	
SB009(8-10)N	S	1130	VOC	
SB009(8-10)W	S	1230	VOC	

Comments: Proposal from 4/29/19

Preservation: (check all that apply) HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction: Field Filtered ___ Lab to Filter X

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
	10/10/19 1500	KBakyork	5/13/19 230PM	KBakyork	5/13/19
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by / Date/Time	Temp. Received at Lab
				PGrace 5-13-19	1744 @2-0 Degrees C

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YORK Project No. 19E0591

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Company: PWGR	Company:	Company:
Address: 630 Johnson Ave Bohemia NY 11716	Address:	Address:
Phone.: 631-589-6353	Phone.:	Phone:
Contact: Dan Haug	Contact:	Contact:
E-mail: DHaug@pwgrosser.com	E-mail:	E-mail:

YOUR Project Number: LST1802

YOUR Project Name: LST1802

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day) X

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)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)

Summary Report | CT RCP | Standard Excel EDD
QA Report | CT RCP DQA/DUE | EQuIS (Standard)
NY ASP A Package | NJDEP Reduced Deliverables | NYSDEC EQuIS
NY ASP B Package | NJDEP SRP HazSite
NJDKQP | Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
FB001	W	10/10/19	SVOCs, VOCs, metals (total/dissolved) Pest PCBs	
EB001	W	10/10/19	SVOCs, VOCs, metals (total/dissolved) Pest PCBs	
FB002	W	10/10/19	SVOCs, VOCs metal (total/dissolved) Pest PCBs	
EB002	W	10/10/19	SVOCs, VOCs metal (total/dissolved) Pest PCBs	
FB003	W	10/10/19	SVOCs, VOCs metals (total/dissolved) Pest, PCBs	
EB003	W	10/11/19	SVOCs, VOCs, metals, (total, dissolved) Pest, PCBs	

Comments: Proposal from 4/29/19

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ___
Lab to Filter ✓

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
	10/10/19 1500	KBakyork	5/13/19 230pm	KBakyork	5/13/19
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by / Date/Time	Temp. Received at Lab
				PGrace 5-13-19 1744	2.0 C Degrees C

ANALYTICAL REPORT

Lab Number:	L1924473
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Derek Ersbak
Phone:	(631) 589-6353
Project Name:	399 EXTERIOR STREET
Project Number:	LST1802
Report Date:	07/02/19

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

Project Name: 399 EXTERIOR STREET
Project Number: LST1802

Lab Number: L1924473
Report Date: 07/02/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1924473-01	SB017(6-8)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 16:00	06/07/19
L1924473-02	SB003(8-10)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 08:00	06/07/19
L1924473-03	SB003(10-12)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 08:05	06/07/19
L1924473-04	SB003(12-14)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 08:10	06/07/19
L1924473-05	SB003(14-16)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 08:15	06/07/19
L1924473-06	SB008(8-10)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 13:00	06/07/19
L1924473-07	SB008(10-12)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 13:05	06/07/19
L1924473-08	SB013(6-8)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 10:00	06/07/19
L1924473-09	SB013(8-10)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 10:05	06/07/19
L1924473-10	SB013(10-12)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 10:15	06/07/19
L1924473-11	SB011(8-10)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 08:20	06/07/19
L1924473-12	SB011(10-12)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 08:25	06/07/19
L1924473-13	SB011(12-14)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 08:25	06/07/19
L1924473-14	SB005(6-8)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 11:00	06/07/19
L1924473-15	SB005(4-6)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 11:05	06/07/19
L1924473-16	SB006(8-10)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 11:10	06/07/19
L1924473-17	SB006(10-12)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 11:15	06/07/19
L1924473-18	SB001(6-8)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 11:20	06/07/19
L1924473-19	SB001(8-10)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 11:25	06/07/19
L1924473-20	SB001(10-12)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 11:30	06/07/19
L1924473-21	SB016(6-8)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 13:00	06/07/19
L1924473-22	SB016(8-10)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 13:10	06/07/19
L1924473-23	SB016(10-12)	SOIL	399 EXTERIOR ST., BRONX, NY	06/06/19 13:20	06/07/19

Project Name:	399 EXTERIOR STREET	**Lab Number:**	L1924473
Project Number:	LST1802	**Report Date:**	07/02/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name:	399 EXTERIOR STREET	**Lab Number:**	L1924473
Project Number:	LST1802	**Report Date:**	07/02/19

Case Narrative (continued)

Report Submission

July 02, 2019: This final report includes the results of the Total Arsenic, Copper, and Lead analyses performed on L1924473-23.

June 25, 2019: This preliminary report includes the result of the Total Lead analysis performed on L1924473-13.

June 25, 2019: This preliminary report includes the results of the Semivolatile Organics analysis performed on L1924473-07 and -19, and the results of the Total Metals analysis performed on L1924473-22.

June 14, 2019: 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.

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:  Kelly Stenstrom

Title: Technical Director/Representative Date: 07/02/19

ORGANICS

VOLATILES

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-21
Client ID: SB016(6-8)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Date Collected: 06/06/19 13:00
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/12/19 13:59
Analyst: JC
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.61	0.24	1
Chlorobenzene	ND		ug/kg	0.61	0.16	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.85	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	0.20	1
Bromodichloromethane	ND		ug/kg	0.61	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.61	0.20	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	0.20	1
Benzene	ND		ug/kg	0.61	0.20	1
Toluene	ND		ug/kg	1.2	0.67	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.1	1
Bromomethane	ND		ug/kg	2.4	0.71	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-21 Date Collected: 06/06/19 13:00

Client ID: SB016(6-8) Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.61	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	0.36	J	ug/kg	2.4	0.25	1
p/m-Xylene	ND		ug/kg	2.4	0.69	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	110		ug/kg	12	5.9	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	19		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.16	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.61	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.9	0.80	1
Acrylonitrile	ND		ug/kg	4.9	1.4	1

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-21 Date Collected: 06/06/19 13:00

Client ID: SB016(6-8) Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.41	1
1,4-Dioxane	ND		ug/kg	98	43.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.22	1
p-Ethyltoluene	ND		ug/kg	2.4	0.47	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	98		70-130

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/12/19 07:55
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 21 Batch: WG1247990-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/12/19 07:55
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 21 Batch: WG1247990-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	0.30	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/12/19 07:55
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 21 Batch: WG1247990-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 399 EXTERIOR STREET
Project Number: LST1802

Lab Number: L1924473
Report Date: 07/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 21 Batch: WG1247990-3 WG1247990-4								
Methylene chloride	112		111		70-130	1		30
1,1-Dichloroethane	106		103		70-130	3		30
Chloroform	102		100		70-130	2		30
Carbon tetrachloride	88		84		70-130	5		30
1,2-Dichloropropane	110		108		70-130	2		30
Dibromochloromethane	93		92		70-130	1		30
1,1,2-Trichloroethane	103		101		70-130	2		30
Tetrachloroethene	82		78		70-130	5		30
Chlorobenzene	92		89		70-130	3		30
Trichlorofluoromethane	81		78		70-139	4		30
1,2-Dichloroethane	109		108		70-130	1		30
1,1,1-Trichloroethane	93		90		70-130	3		30
Bromodichloromethane	105		104		70-130	1		30
trans-1,3-Dichloropropene	104		102		70-130	2		30
cis-1,3-Dichloropropene	113		110		70-130	3		30
1,1-Dichloropropene	92		90		70-130	2		30
Bromoform	91		90		70-130	1		30
1,1,2,2-Tetrachloroethane	96		95		70-130	1		30
Benzene	103		100		70-130	3		30
Toluene	90		87		70-130	3		30
Ethylbenzene	89		86		70-130	3		30
Chloromethane	108		104		52-130	4		30
Bromomethane	96		92		57-147	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 399 EXTERIOR STREET

Project Number: LST1802

Lab Number: L1924473

Report Date: 07/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 21 Batch: WG1247990-3 WG1247990-4								
Vinyl chloride	91		88		67-130	3		30
Chloroethane	87		85		50-151	2		30
1,1-Dichloroethene	91		86		65-135	6		30
trans-1,2-Dichloroethene	96		94		70-130	2		30
Trichloroethene	94		91		70-130	3		30
1,2-Dichlorobenzene	93		91		70-130	2		30
1,3-Dichlorobenzene	92		89		70-130	3		30
1,4-Dichlorobenzene	91		89		70-130	2		30
Methyl tert butyl ether	117		116		66-130	1		30
p/m-Xylene	90		86		70-130	5		30
o-Xylene	92		89		70-130	3		30
cis-1,2-Dichloroethene	103		101		70-130	2		30
Dibromomethane	106		107		70-130	1		30
Styrene	94		92		70-130	2		30
Dichlorodifluoromethane	95		91		30-146	4		30
Acetone	131		127		54-140	3		30
Carbon disulfide	86		83		59-130	4		30
2-Butanone	110		100		70-130	10		30
Vinyl acetate	121		120		70-130	1		30
4-Methyl-2-pentanone	101		98		70-130	3		30
1,2,3-Trichloropropane	101		99		68-130	2		30
2-Hexanone	92		90		70-130	2		30
Bromochloromethane	105		104		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 399 EXTERIOR STREET
Project Number: LST1802

Lab Number: L1924473
Report Date: 07/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 21 Batch: WG1247990-3 WG1247990-4								
2,2-Dichloropropane	103		98		70-130	5		30
1,2-Dibromoethane	100		98		70-130	2		30
1,3-Dichloropropane	103		102		69-130	1		30
1,1,1,2-Tetrachloroethane	96		93		70-130	3		30
Bromobenzene	92		90		70-130	2		30
n-Butylbenzene	87		83		70-130	5		30
sec-Butylbenzene	85		81		70-130	5		30
tert-Butylbenzene	85		81		70-130	5		30
o-Chlorotoluene	91		88		70-130	3		30
p-Chlorotoluene	92		89		70-130	3		30
1,2-Dibromo-3-chloropropane	88		85		68-130	3		30
Hexachlorobutadiene	81		77		67-130	5		30
Isopropylbenzene	86		82		70-130	5		30
p-Isopropyltoluene	86		82		70-130	5		30
Naphthalene	92		89		70-130	3		30
Acrylonitrile	114		114		70-130	0		30
n-Propylbenzene	88		84		70-130	5		30
1,2,3-Trichlorobenzene	96		92		70-130	4		30
1,2,4-Trichlorobenzene	92		88		70-130	4		30
1,3,5-Trimethylbenzene	88		86		70-130	2		30
1,2,4-Trimethylbenzene	90		87		70-130	3		30
1,4-Dioxane	130		128		65-136	2		30
p-Diethylbenzene	86		80		70-130	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 399 EXTERIOR STREET
Project Number: LST1802

Lab Number: L1924473
Report Date: 07/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 21 Batch: WG1247990-3 WG1247990-4								
p-Ethyltoluene	88		84		70-130	5		30
1,2,4,5-Tetramethylbenzene	90		86		70-130	5		30
Ethyl ether	119		118		67-130	1		30
trans-1,4-Dichloro-2-butene	103		98		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		100		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	104		104		70-130
Dibromofluoromethane	98		98		70-130

SEMIVOLATILES

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-01
Client ID: SB017(6-8)
Sample Location: 399 EXTERIOR ST., BRONX, NY

Date Collected: 06/06/19 16:00
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/11/19 08:57
Analyst: RC
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 06/10/19 02:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	110	J	ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-01 Date Collected: 06/06/19 16:00

Client ID: SB017(6-8) Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	140		ug/kg	120	23.	1
Benzo(a)pyrene	190		ug/kg	160	50.	1
Benzo(b)fluoranthene	160		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	240		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	160		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	54	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	62	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	69	J	ug/kg	160	28.	1
Pyrene	170		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	83.	1
2,4-Dinitrophenol	ND		ug/kg	970	95.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	97.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-01 Date Collected: 06/06/19 16:00

Client ID: SB017(6-8) Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	30	9.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	51		18-120

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-06
Client ID: SB008(8-10)
Sample Location: 399 EXTERIOR ST., BRONX, NY

Date Collected: 06/06/19 13:00
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/11/19 19:01
Analyst: RC
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 06/10/19 22:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1100		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	16000	E	ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	1100		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-06 Date Collected: 06/06/19 13:00

Client ID: SB008(8-10) Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	6500		ug/kg	120	22.	1
Benzo(a)pyrene	6400		ug/kg	160	48.	1
Benzo(b)fluoranthene	7500		ug/kg	120	33.	1
Benzo(k)fluoranthene	2300		ug/kg	120	31.	1
Chrysene	5500		ug/kg	120	20.	1
Acenaphthylene	670		ug/kg	160	30.	1
Anthracene	3000		ug/kg	120	38.	1
Benzo(ghi)perylene	3900		ug/kg	160	23.	1
Fluorene	950		ug/kg	200	19.	1
Phenanthrene	11000	E	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	750		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	4200		ug/kg	160	27.	1
Pyrene	14000	E	ug/kg	120	20.	1
Biphenyl	150	J	ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	940		ug/kg	200	18.	1
2-Methylnaphthalene	340		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	280	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	75	J	ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	130	J	ug/kg	280	31.	1

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-06 Date Collected: 06/06/19 13:00

Client ID: SB008(8-10) Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	1100		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	56		18-120

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-06 D
Client ID: SB008(8-10)
Sample Location: 399 EXTERIOR ST., BRONX, NY

Date Collected: 06/06/19 13:00
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/14/19 11:54
Analyst: JG
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 06/10/19 22:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	23000		ug/kg	590	110	5
Phenanthrene	17000		ug/kg	590	120	5
Pyrene	21000		ug/kg	590	98.	5

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-07
Client ID: SB008(10-12)
Sample Location: 399 EXTERIOR ST., BRONX, NY

Date Collected: 06/06/19 13:05
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/24/19 02:50
Analyst: EK
Percent Solids: 72%

Extraction Method: EPA 3546
Extraction Date: 06/19/19 09:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	32	J	ug/kg	180	24.	1
1,2,4-Trichlorobenzene	ND		ug/kg	230	26.	1
Hexachlorobenzene	ND		ug/kg	140	26.	1
Bis(2-chloroethyl)ether	ND		ug/kg	210	31.	1
2-Chloronaphthalene	ND		ug/kg	230	23.	1
1,2-Dichlorobenzene	ND		ug/kg	230	41.	1
1,3-Dichlorobenzene	ND		ug/kg	230	39.	1
1,4-Dichlorobenzene	ND		ug/kg	230	40.	1
3,3'-Dichlorobenzidine	ND		ug/kg	230	61.	1
2,4-Dinitrotoluene	ND		ug/kg	230	46.	1
2,6-Dinitrotoluene	ND		ug/kg	230	39.	1
Fluoranthene	400		ug/kg	140	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	230	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	35.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	280	39.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	250	23.	1
Hexachlorobutadiene	ND		ug/kg	230	34.	1
Hexachlorocyclopentadiene	ND		ug/kg	660	210	1
Hexachloroethane	ND		ug/kg	180	37.	1
Isophorone	ND		ug/kg	210	30.	1
Naphthalene	78	J	ug/kg	230	28.	1
Nitrobenzene	ND		ug/kg	210	34.	1
NDPA/DPA	ND		ug/kg	180	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	230	35.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	230	79.	1
Butyl benzyl phthalate	ND		ug/kg	230	58.	1
Di-n-butylphthalate	ND		ug/kg	230	43.	1
Di-n-octylphthalate	ND		ug/kg	230	78.	1

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-07 Date Collected: 06/06/19 13:05

Client ID: SB008(10-12) Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	230	21.	1
Dimethyl phthalate	ND		ug/kg	230	48.	1
Benzo(a)anthracene	280		ug/kg	140	26.	1
Benzo(a)pyrene	250		ug/kg	180	56.	1
Benzo(b)fluoranthene	260		ug/kg	140	39.	1
Benzo(k)fluoranthene	75	J	ug/kg	140	37.	1
Chrysene	240		ug/kg	140	24.	1
Acenaphthylene	ND		ug/kg	180	35.	1
Anthracene	86	J	ug/kg	140	45.	1
Benzo(ghi)perylene	140	J	ug/kg	180	27.	1
Fluorene	30	J	ug/kg	230	22.	1
Phenanthrene	270		ug/kg	140	28.	1
Dibenzo(a,h)anthracene	31	J	ug/kg	140	26.	1
Indeno(1,2,3-cd)pyrene	130	J	ug/kg	180	32.	1
Pyrene	500		ug/kg	140	23.	1
Biphenyl	ND		ug/kg	520	53.	1
4-Chloroaniline	ND		ug/kg	230	42.	1
2-Nitroaniline	ND		ug/kg	230	44.	1
3-Nitroaniline	ND		ug/kg	230	43.	1
4-Nitroaniline	ND		ug/kg	230	95.	1
Dibenzofuran	ND		ug/kg	230	22.	1
2-Methylnaphthalene	ND		ug/kg	280	28.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	230	24.	1
Acetophenone	ND		ug/kg	230	28.	1
2,4,6-Trichlorophenol	ND		ug/kg	140	43.	1
p-Chloro-m-cresol	ND		ug/kg	230	34.	1
2-Chlorophenol	ND		ug/kg	230	27.	1
2,4-Dichlorophenol	ND		ug/kg	210	37.	1
2,4-Dimethylphenol	ND		ug/kg	230	76.	1
2-Nitrophenol	ND		ug/kg	500	86.	1
4-Nitrophenol	ND		ug/kg	320	94.	1
2,4-Dinitrophenol	ND		ug/kg	1100	110	1
4,6-Dinitro-o-cresol	ND		ug/kg	600	110	1
Pentachlorophenol	ND		ug/kg	180	50.	1
Phenol	ND		ug/kg	230	35.	1
2-Methylphenol	ND		ug/kg	230	36.	1
3-Methylphenol/4-Methylphenol	570		ug/kg	330	36.	1

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-07 Date Collected: 06/06/19 13:05

Client ID: SB008(10-12) Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	230	44.	1
Benzoic Acid	ND		ug/kg	740	230	1
Benzyl Alcohol	ND		ug/kg	230	70.	1
Carbazole	ND		ug/kg	230	22.	1
1,4-Dioxane	ND		ug/kg	34	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	49		18-120

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-08
Client ID: SB013(6-8)
Sample Location: 399 EXTERIOR ST., BRONX, NY

Date Collected: 06/06/19 10:00
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/11/19 17:19
Analyst: RC
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 06/10/19 22:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	170		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-08 Date Collected: 06/06/19 10:00

Client ID: SB013(6-8) Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	100	J	ug/kg	110	21.	1
Benzo(a)pyrene	110	J	ug/kg	150	46.	1
Benzo(b)fluoranthene	130		ug/kg	110	32.	1
Benzo(k)fluoranthene	48	J	ug/kg	110	30.	1
Chrysene	99	J	ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	79	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	62	J	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	82	J	ug/kg	150	26.	1
Pyrene	190		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	900	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-08 Date Collected: 06/06/19 10:00

Client ID: SB013(6-8) Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	61		18-120

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-15
Client ID: SB005(4-6)
Sample Location: 399 EXTERIOR ST., BRONX, NY

Date Collected: 06/06/19 11:05
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/11/19 13:02
Analyst: RC
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 06/10/19 22:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	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
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: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-15 Date Collected: 06/06/19 11:05

Client ID: SB005(4-6) Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

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
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

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-15 Date Collected: 06/06/19 11:05

Client ID: SB005(4-6) Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	8.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	63		18-120

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-18
Client ID: SB001(6-8)
Sample Location: 399 EXTERIOR ST., BRONX, NY

Date Collected: 06/06/19 11:20
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/11/19 18:10
Analyst: RC
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 06/10/19 22:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	55	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	4100		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	190		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	47.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-18 Date Collected: 06/06/19 11:20

Client ID: SB001(6-8) Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	3200		ug/kg	110	21.	1
Benzo(a)pyrene	3100		ug/kg	150	45.	1
Benzo(b)fluoranthene	4200		ug/kg	110	31.	1
Benzo(k)fluoranthene	1400		ug/kg	110	30.	1
Chrysene	2600		ug/kg	110	19.	1
Acenaphthylene	670		ug/kg	150	28.	1
Anthracene	430		ug/kg	110	36.	1
Benzo(ghi)perylene	1800		ug/kg	150	22.	1
Fluorene	72	J	ug/kg	180	18.	1
Phenanthrene	520		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	530		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	2200		ug/kg	150	26.	1
Pyrene	3300		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	77.	1
Dibenzofuran	65	J	ug/kg	180	18.	1
2-Methylnaphthalene	58	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	38	J	ug/kg	270	29.	1

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-18 Date Collected: 06/06/19 11:20

Client ID: SB001(6-8) Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	55	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	60		18-120

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-19
Client ID: SB001(8-10)
Sample Location: 399 EXTERIOR ST., BRONX, NY

Date Collected: 06/06/19 11:25
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/24/19 03:14
Analyst: EK
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 06/19/19 09:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	220		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-19 Date Collected: 06/06/19 11:25

Client ID: SB001(8-10) Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	160		ug/kg	120	23.	1
Benzo(a)pyrene	150	J	ug/kg	160	50.	1
Benzo(b)fluoranthene	200		ug/kg	120	34.	1
Benzo(k)fluoranthene	68	J	ug/kg	120	32.	1
Chrysene	140		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	95	J	ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	91	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	26	J	ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	100	J	ug/kg	160	28.	1
Pyrene	200		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	83.	1
2,4-Dinitrophenol	ND		ug/kg	980	95.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	98.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-19 Date Collected: 06/06/19 11:25

Client ID: SB001(8-10) Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	210	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	30	9.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		25-120
Phenol-d6	52		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	61		18-120

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-21
Client ID: SB016(6-8)
Sample Location: 399 EXTERIOR ST., BRONX, NY

Date Collected: 06/06/19 13:00
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/11/19 05:58
Analyst: RC
Percent Solids: 72%

Extraction Method: EPA 3546
Extraction Date: 06/10/19 02:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	24.	1
1,2,4-Trichlorobenzene	ND		ug/kg	230	26.	1
Hexachlorobenzene	ND		ug/kg	140	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	31.	1
2-Chloronaphthalene	ND		ug/kg	230	22.	1
1,2-Dichlorobenzene	ND		ug/kg	230	41.	1
1,3-Dichlorobenzene	ND		ug/kg	230	39.	1
1,4-Dichlorobenzene	ND		ug/kg	230	40.	1
3,3'-Dichlorobenzidine	ND		ug/kg	230	60.	1
2,4-Dinitrotoluene	ND		ug/kg	230	46.	1
2,6-Dinitrotoluene	ND		ug/kg	230	39.	1
Fluoranthene	210		ug/kg	140	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	230	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	35.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	39.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	23.	1
Hexachlorobutadiene	ND		ug/kg	230	33.	1
Hexachlorocyclopentadiene	ND		ug/kg	650	210	1
Hexachloroethane	ND		ug/kg	180	37.	1
Isophorone	ND		ug/kg	200	30.	1
Naphthalene	39	J	ug/kg	230	28.	1
Nitrobenzene	ND		ug/kg	200	34.	1
NDPA/DPA	ND		ug/kg	180	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	230	35.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	230	79.	1
Butyl benzyl phthalate	ND		ug/kg	230	57.	1
Di-n-butylphthalate	ND		ug/kg	230	43.	1
Di-n-octylphthalate	ND		ug/kg	230	77.	1

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-21 Date Collected: 06/06/19 13:00

Client ID: SB016(6-8) Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	230	21.	1
Dimethyl phthalate	ND		ug/kg	230	48.	1
Benzo(a)anthracene	120	J	ug/kg	140	26.	1
Benzo(a)pyrene	120	J	ug/kg	180	56.	1
Benzo(b)fluoranthene	120	J	ug/kg	140	38.	1
Benzo(k)fluoranthene	52	J	ug/kg	140	36.	1
Chrysene	120	J	ug/kg	140	24.	1
Acenaphthylene	ND		ug/kg	180	35.	1
Anthracene	ND		ug/kg	140	44.	1
Benzo(ghi)perylene	63	J	ug/kg	180	27.	1
Fluorene	ND		ug/kg	230	22.	1
Phenanthrene	130	J	ug/kg	140	28.	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	26.	1
Indeno(1,2,3-cd)pyrene	66	J	ug/kg	180	32.	1
Pyrene	220		ug/kg	140	23.	1
Biphenyl	ND		ug/kg	520	53.	1
4-Chloroaniline	ND		ug/kg	230	41.	1
2-Nitroaniline	ND		ug/kg	230	44.	1
3-Nitroaniline	ND		ug/kg	230	43.	1
4-Nitroaniline	ND		ug/kg	230	94.	1
Dibenzofuran	ND		ug/kg	230	22.	1
2-Methylnaphthalene	ND		ug/kg	270	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	230	24.	1
Acetophenone	ND		ug/kg	230	28.	1
2,4,6-Trichlorophenol	ND		ug/kg	140	43.	1
p-Chloro-m-cresol	ND		ug/kg	230	34.	1
2-Chlorophenol	ND		ug/kg	230	27.	1
2,4-Dichlorophenol	ND		ug/kg	200	37.	1
2,4-Dimethylphenol	ND		ug/kg	230	75.	1
2-Nitrophenol	ND		ug/kg	490	86.	1
4-Nitrophenol	ND		ug/kg	320	93.	1
2,4-Dinitrophenol	ND		ug/kg	1100	110	1
4,6-Dinitro-o-cresol	ND		ug/kg	590	110	1
Pentachlorophenol	ND		ug/kg	180	50.	1
Phenol	ND		ug/kg	230	34.	1
2-Methylphenol	ND		ug/kg	230	35.	1
3-Methylphenol/4-Methylphenol	77	J	ug/kg	330	36.	1

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-21 Date Collected: 06/06/19 13:00

Client ID: SB016(6-8) Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	230	44.	1
Benzoic Acid	ND		ug/kg	740	230	1
Benzyl Alcohol	ND		ug/kg	230	70.	1
Carbazole	ND		ug/kg	230	22.	1
1,4-Dioxane	ND		ug/kg	34	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	57		18-120

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/11/19 00:50
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 06/10/19 02:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,21 Batch: WG1246368-1					
Acenaphthene	ND		ug/kg	130	17.
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.
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.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/11/19 00:50
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 06/10/19 02:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,21 Batch: WG1246368-1					
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	27.
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	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	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
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.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/11/19 00:50
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 06/10/19 02:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,21 Batch: WG1246368-1					
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	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	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.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	83		18-120

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/11/19 09:36
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 06/10/19 14:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06,08,15,18 Batch: WG1246559-1					
Acenaphthene	ND		ug/kg	130	17.
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.
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	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/11/19 09:36
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 06/10/19 14:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06,08,15,18 Batch: WG1246559-1					
Dimethyl phthalate	ND		ug/kg	160	35.
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.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/11/19 09:36
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 06/10/19 14:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06,08,15,18 Batch: WG1246559-1					
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.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	70		10-136
4-Terphenyl-d14	74		18-120

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/20/19 03:20
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 06/19/19 09:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07,19 Batch: WG1250337-1					
Acenaphthene	ND		ug/kg	130	17.
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.
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	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/20/19 03:20
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 06/19/19 09:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07,19 Batch: WG1250337-1					
Dimethyl phthalate	ND		ug/kg	160	35.
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.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/20/19 03:20
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 06/19/19 09:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07,19 Batch: WG1250337-1					
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.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	57		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	57		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	61		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 399 EXTERIOR STREET

Project Number: LST1802

Lab Number: L1924473

Report Date: 07/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,21 Batch: WG1246368-2 WG1246368-3								
Acenaphthene	84		75		31-137	11		50
1,2,4-Trichlorobenzene	82		73		38-107	12		50
Hexachlorobenzene	87		80		40-140	8		50
Bis(2-chloroethyl)ether	78		70		40-140	11		50
2-Chloronaphthalene	88		79		40-140	11		50
1,2-Dichlorobenzene	76		69		40-140	10		50
1,3-Dichlorobenzene	76		68		40-140	11		50
1,4-Dichlorobenzene	76		68		28-104	11		50
3,3'-Dichlorobenzidine	67		60		40-140	11		50
2,4-Dinitrotoluene	102		93		40-132	9		50
2,6-Dinitrotoluene	107		99		40-140	8		50
Fluoranthene	90		79		40-140	13		50
4-Chlorophenyl phenyl ether	86		78		40-140	10		50
4-Bromophenyl phenyl ether	87		79		40-140	10		50
Bis(2-chloroisopropyl)ether	81		72		40-140	12		50
Bis(2-chloroethoxy)methane	87		78		40-117	11		50
Hexachlorobutadiene	83		73		40-140	13		50
Hexachlorocyclopentadiene	72		64		40-140	12		50
Hexachloroethane	78		70		40-140	11		50
Isophorone	86		78		40-140	10		50
Naphthalene	83		72		40-140	14		50
Nitrobenzene	99		87		40-140	13		50
NDPA/DPA	90		82		36-157	9		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,21 Batch: WG1246368-2 WG1246368-3								
n-Nitrosodi-n-propylamine	85		77		32-121	10		50
Bis(2-ethylhexyl)phthalate	96		87		40-140	10		50
Butyl benzyl phthalate	96		85		40-140	12		50
Di-n-butylphthalate	90		82		40-140	9		50
Di-n-octylphthalate	94		86		40-140	9		50
Diethyl phthalate	87		80		40-140	8		50
Dimethyl phthalate	92		84		40-140	9		50
Benzo(a)anthracene	86		80		40-140	7		50
Benzo(a)pyrene	96		85		40-140	12		50
Benzo(b)fluoranthene	92		81		40-140	13		50
Benzo(k)fluoranthene	92		84		40-140	9		50
Chrysene	86		79		40-140	8		50
Acenaphthylene	91		82		40-140	10		50
Anthracene	86		77		40-140	11		50
Benzo(ghi)perylene	86		77		40-140	11		50
Fluorene	86		77		40-140	11		50
Phenanthrene	84		75		40-140	11		50
Dibenzo(a,h)anthracene	86		77		40-140	11		50
Indeno(1,2,3-cd)pyrene	87		79		40-140	10		50
Pyrene	88		79		35-142	11		50
Biphenyl	82		73		54-104	12		50
4-Chloroaniline	79		71		40-140	11		50
2-Nitroaniline	106		98		47-134	8		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 399 EXTERIOR STREET
Project Number: LST1802

Lab Number: L1924473
Report Date: 07/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,21 Batch: WG1246368-2 WG1246368-3								
3-Nitroaniline	84		77		26-129	9		50
4-Nitroaniline	110		100		41-125	10		50
Dibenzofuran	85		77		40-140	10		50
2-Methylnaphthalene	84		75		40-140	11		50
1,2,4,5-Tetrachlorobenzene	78		71		40-117	9		50
Acetophenone	80		72		14-144	11		50
2,4,6-Trichlorophenol	101		90		30-130	12		50
p-Chloro-m-cresol	99		91		26-103	8		50
2-Chlorophenol	89		78		25-102	13		50
2,4-Dichlorophenol	97		88		30-130	10		50
2,4-Dimethylphenol	95		87		30-130	9		50
2-Nitrophenol	118		107		30-130	10		50
4-Nitrophenol	106		94		11-114	12		50
2,4-Dinitrophenol	121		111		4-130	9		50
4,6-Dinitro-o-cresol	**132**	Q	121		10-130	9		50
Pentachlorophenol	84		76		17-109	10		50
Phenol	83		74		26-90	11		50
2-Methylphenol	90		82		30-130.	9		50
3-Methylphenol/4-Methylphenol	92		82		30-130	11		50
2,4,5-Trichlorophenol	102		93		30-130	9		50
Benzoic Acid	54		46		10-110	16		50
Benzyl Alcohol	88		78		40-140	12		50
Carbazole	88		80		54-128	10		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 399 EXTERIOR STREET
Project Number: LST1802

Lab Number: L1924473
Report Date: 07/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,21 Batch: WG1246368-2 WG1246368-3								
1,4-Dioxane	62		55		40-140	12		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	77		68		25-120
Phenol-d6	77		67		10-120
Nitrobenzene-d5	92		83		23-120
2-Fluorobiphenyl	77		69		30-120
2,4,6-Tribromophenol	88		82		10-136
4-Terphenyl-d14	77		69		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 399 EXTERIOR STREET
Project Number: LST1802

Lab Number: L1924473
Report Date: 07/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06,08,15,18 Batch: WG1246559-2 WG1246559-3								
Acenaphthene	63		69		31-137	9		50
1,2,4-Trichlorobenzene	57		53		38-107	7		50
Hexachlorobenzene	61		69		40-140	12		50
Bis(2-chloroethyl)ether	58		54		40-140	7		50
2-Chloronaphthalene	64		67		40-140	5		50
1,2-Dichlorobenzene	56		49		40-140	13		50
1,3-Dichlorobenzene	54		47		40-140	14		50
1,4-Dichlorobenzene	56		48		28-104	15		50
3,3'-Dichlorobenzidine	51		61		40-140	18		50
2,4-Dinitrotoluene	70		82		40-132	16		50
2,6-Dinitrotoluene	68		78		40-140	14		50
Fluoranthene	67		81		40-140	19		50
4-Chlorophenyl phenyl ether	64		70		40-140	9		50
4-Bromophenyl phenyl ether	65		74		40-140	13		50
Bis(2-chloroisopropyl)ether	59		55		40-140	7		50
Bis(2-chloroethoxy)methane	64		65		40-117	2		50
Hexachlorobutadiene	58		56		40-140	4		50
Hexachlorocyclopentadiene	67		68		40-140	1		50
Hexachloroethane	59		50		40-140	17		50
Isophorone	68		68		40-140	0		50
Naphthalene	59		60		40-140	2		50
Nitrobenzene	71		70		40-140	1		50
NDPA/DPA	70		77		36-157	10		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 399 EXTERIOR STREET
Project Number: LST1802

Lab Number: L1924473
Report Date: 07/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06,08,15,18 Batch: WG1246559-2 WG1246559-3								
n-Nitrosodi-n-propylamine	68		69		32-121	1		50
Bis(2-ethylhexyl)phthalate	68		80		40-140	16		50
Butyl benzyl phthalate	72		86		40-140	18		50
Di-n-butylphthalate	68		80		40-140	16		50
Di-n-octylphthalate	70		83		40-140	17		50
Diethyl phthalate	70		79		40-140	12		50
Dimethyl phthalate	67		74		40-140	10		50
Benzo(a)anthracene	68		81		40-140	17		50
Benzo(a)pyrene	73		89		40-140	20		50
Benzo(b)fluoranthene	69		84		40-140	20		50
Benzo(k)fluoranthene	69		85		40-140	21		50
Chrysene	64		77		40-140	18		50
Acenaphthylene	68		74		40-140	8		50
Anthracene	64		74		40-140	14		50
Benzo(ghi)perylene	67		82		40-140	20		50
Fluorene	68		73		40-140	7		50
Phenanthrene	62		71		40-140	14		50
Dibenzo(a,h)anthracene	66		80		40-140	19		50
Indeno(1,2,3-cd)pyrene	68		85		40-140	22		50
Pyrene	68		81		35-142	17		50
Biphenyl	62		64		54-104	3		50
4-Chloroaniline	72		68		40-140	6		50
2-Nitroaniline	78		89		47-134	13		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 399 EXTERIOR STREET
Project Number: LST1802

Lab Number: L1924473
Report Date: 07/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06,08,15,18 Batch: WG1246559-2 WG1246559-3								
3-Nitroaniline	62		70		26-129	12		50
4-Nitroaniline	77		92		41-125	18		50
Dibenzofuran	66		72		40-140	9		50
2-Methylnaphthalene	62		64		40-140	3		50
1,2,4,5-Tetrachlorobenzene	56		58		40-117	4		50
Acetophenone	60		60		14-144	0		50
2,4,6-Trichlorophenol	70		78		30-130	11		50
p-Chloro-m-cresol	79		86		26-103	8		50
2-Chlorophenol	63		62		25-102	2		50
2,4-Dichlorophenol	68		71		30-130	4		50
2,4-Dimethylphenol	72		75		30-130	4		50
2-Nitrophenol	74		76		30-130	3		50
4-Nitrophenol	80		94		11-114	16		50
2,4-Dinitrophenol	71		82		4-130	14		50
4,6-Dinitro-o-cresol	80		95		10-130	17		50
Pentachlorophenol	69		81		17-109	16		50
Phenol	72		73		26-90	1		50
2-Methylphenol	67		69		30-130.	3		50
3-Methylphenol/4-Methylphenol	69		71		30-130	3		50
2,4,5-Trichlorophenol	73		81		30-130	10		50
Benzoic Acid	44		45		10-110	2		50
Benzyl Alcohol	72		73		40-140	1		50
Carbazole	68		81		54-128	17		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 399 EXTERIOR STREET

Project Number: LST1802

Lab Number: L1924473

Report Date: 07/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06,08,15,18 Batch: WG1246559-2 WG1246559-3								
1,4-Dioxane	51		40		40-140	24		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	64		61		25-120
Phenol-d6	65		66		10-120
Nitrobenzene-d5	76		75		23-120
2-Fluorobiphenyl	65		69		30-120
2,4,6-Tribromophenol	69		80		10-136
4-Terphenyl-d14	64		77		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 399 EXTERIOR STREET
Project Number: LST1802

Lab Number: L1924473
Report Date: 07/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,19 Batch: WG1250337-2 WG1250337-3								
Acenaphthene	69		83		31-137	18		50
1,2,4-Trichlorobenzene	64		75		38-107	16		50
Hexachlorobenzene	90		97		40-140	7		50
Bis(2-chloroethyl)ether	63		69		40-140	9		50
2-Chloronaphthalene	52		72		40-140	32		50
1,2-Dichlorobenzene	56		66		40-140	16		50
1,3-Dichlorobenzene	60		65		40-140	8		50
1,4-Dichlorobenzene	60		65		28-104	8		50
3,3'-Dichlorobenzidine	60		68		40-140	13		50
2,4-Dinitrotoluene	78		93		40-132	18		50
2,6-Dinitrotoluene	59		80		40-140	30		50
Fluoranthene	88		94		40-140	7		50
4-Chlorophenyl phenyl ether	78		91		40-140	15		50
4-Bromophenyl phenyl ether	92		101		40-140	9		50
Bis(2-chloroisopropyl)ether	52		63		40-140	19		50
Bis(2-chloroethoxy)methane	68		78		40-117	14		50
Hexachlorobutadiene	71		84		40-140	17		50
Hexachlorocyclopentadiene	71		96		40-140	30		50
Hexachloroethane	67		74		40-140	10		50
Isophorone	68		83		40-140	20		50
Naphthalene	64		73		40-140	13		50
Nitrobenzene	71		87		40-140	20		50
NDPA/DPA	75		89		36-157	17		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 399 EXTERIOR STREET
Project Number: LST1802

Lab Number: L1924473
Report Date: 07/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,19 Batch: WG1250337-2 WG1250337-3								
n-Nitrosodi-n-propylamine	73		87		32-121	18		50
Bis(2-ethylhexyl)phthalate	74		84		40-140	13		50
Butyl benzyl phthalate	106		96		40-140	10		50
Di-n-butylphthalate	98		89		40-140	10		50
Di-n-octylphthalate	72		90		40-140	22		50
Diethyl phthalate	77		97		40-140	23		50
Dimethyl phthalate	55		77		40-140	33		50
Benzo(a)anthracene	72		86		40-140	18		50
Benzo(a)pyrene	73		95		40-140	26		50
Benzo(b)fluoranthene	73		90		40-140	21		50
Benzo(k)fluoranthene	72		91		40-140	23		50
Chrysene	68		80		40-140	16		50
Acenaphthylene	55		78		40-140	35		50
Anthracene	69		81		40-140	16		50
Benzo(ghi)perylene	75		77		40-140	3		50
Fluorene	73		88		40-140	19		50
Phenanthrene	66		78		40-140	17		50
Dibenzo(a,h)anthracene	74		75		40-140	1		50
Indeno(1,2,3-cd)pyrene	78		81		40-140	4		50
Pyrene	91		92		35-142	1		50
Biphenyl	**50**	Q	71		54-104	35		50
4-Chloroaniline	70		79		40-140	12		50
2-Nitroaniline	62		90		47-134	37		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 399 EXTERIOR STREET
Project Number: LST1802

Lab Number: L1924473
Report Date: 07/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,19 Batch: WG1250337-2 WG1250337-3								
3-Nitroaniline	64		75		26-129	16		50
4-Nitroaniline	77		92		41-125	18		50
Dibenzofuran	72		87		40-140	19		50
2-Methylnaphthalene	55		74		40-140	29		50
1,2,4,5-Tetrachlorobenzene	53		73		40-117	32		50
Acetophenone	66		77		14-144	15		50
2,4,6-Trichlorophenol	65		89		30-130	31		50
p-Chloro-m-cresol	73		96		26-103	27		50
2-Chlorophenol	69		78		25-102	12		50
2,4-Dichlorophenol	78		94		30-130	19		50
2,4-Dimethylphenol	83		98		30-130	17		50
2-Nitrophenol	87		96		30-130	10		50
4-Nitrophenol	75		94		11-114	22		50
2,4-Dinitrophenol	83		95		4-130	13		50
4,6-Dinitro-o-cresol	96		110		10-130	14		50
Pentachlorophenol	96		101		17-109	5		50
Phenol	69		79		26-90	14		50
2-Methylphenol	68		86		30-130.	23		50
3-Methylphenol/4-Methylphenol	72		85		30-130	17		50
2,4,5-Trichlorophenol	65		90		30-130	32		50
Benzoic Acid	41		39		10-110	5		50
Benzyl Alcohol	71		92		40-140	26		50
Carbazole	69		85		54-128	21		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 399 EXTERIOR STREET
Project Number: LST1802

Lab Number: L1924473
Report Date: 07/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,19 Batch: WG1250337-2 WG1250337-3								
1,4-Dioxane	47		51		40-140	8		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	68		79		25-120
Phenol-d6	68		76		10-120
Nitrobenzene-d5	80		95		23-120
2-Fluorobiphenyl	55		74		30-120
2,4,6-Tribromophenol	118		122		10-136
4-Terphenyl-d14	93		90		18-120

PCBS

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-01
Client ID: SB017(6-8)
Sample Location: 399 EXTERIOR ST., BRONX, NY

Date Collected: 06/06/19 16:00
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/14/19 07:09
Analyst: KB
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 06/11/19 18:11
Cleanup Method: EPA 3665A
Cleanup Date: 06/12/19
Cleanup Method: EPA 3660B
Cleanup Date: 06/12/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.2	3.57	1	A
Aroclor 1221	ND		ug/kg	40.2	4.03	1	A
Aroclor 1232	ND		ug/kg	40.2	8.53	1	A
Aroclor 1242	ND		ug/kg	40.2	5.42	1	A
Aroclor 1248	ND		ug/kg	40.2	6.03	1	A
Aroclor 1254	ND		ug/kg	40.2	4.40	1	A
Aroclor 1260	ND		ug/kg	40.2	7.43	1	A
Aroclor 1262	ND		ug/kg	40.2	5.11	1	A
Aroclor 1268	ND		ug/kg	40.2	4.17	1	A
PCBs, Total	ND		ug/kg	40.2	3.57	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-21
Client ID: SB016(6-8)
Sample Location: 399 EXTERIOR ST., BRONX, NY

Date Collected: 06/06/19 13:00
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/14/19 07:22
Analyst: KB
Percent Solids: 72%

Extraction Method: EPA 3546
Extraction Date: 06/11/19 18:11
Cleanup Method: EPA 3665A
Cleanup Date: 06/12/19
Cleanup Method: EPA 3660B
Cleanup Date: 06/12/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	45.4	4.03	1	A
Aroclor 1221	ND		ug/kg	45.4	4.55	1	A
Aroclor 1232	ND		ug/kg	45.4	9.63	1	A
Aroclor 1242	ND		ug/kg	45.4	6.12	1	A
Aroclor 1248	ND		ug/kg	45.4	6.82	1	A
Aroclor 1254	ND		ug/kg	45.4	4.97	1	A
Aroclor 1260	ND		ug/kg	45.4	8.40	1	A
Aroclor 1262	ND		ug/kg	45.4	5.77	1	A
Aroclor 1268	ND		ug/kg	45.4	4.71	1	A
PCBs, Total	ND		ug/kg	45.4	4.03	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 06/14/19 04:20
Analyst: KB

Extraction Method: EPA 3546
Extraction Date: 06/11/19 18:11
Cleanup Method: EPA 3665A
Cleanup Date: 06/12/19
Cleanup Method: EPA 3660B
Cleanup Date: 06/12/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,21 Batch: WG1247113-1						
Aroclor 1016	ND		ug/kg	31.4	2.79	A
Aroclor 1221	ND		ug/kg	31.4	3.14	A
Aroclor 1232	ND		ug/kg	31.4	6.65	A
Aroclor 1242	ND		ug/kg	31.4	4.23	A
Aroclor 1248	ND		ug/kg	31.4	4.71	A
Aroclor 1254	ND		ug/kg	31.4	3.43	A
Aroclor 1260	ND		ug/kg	31.4	5.80	A
Aroclor 1262	ND		ug/kg	31.4	3.99	A
Aroclor 1268	ND		ug/kg	31.4	3.25	A
PCBs, Total	ND		ug/kg	31.4	2.79	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	73		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 399 EXTERIOR STREET

Project Number: LST1802

Lab Number: L1924473

Report Date: 07/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,21 Batch: WG1247113-2 WG1247113-3									
Aroclor 1016	86		90		40-140	5		50	A
Aroclor 1260	74		78		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		85		30-150	A
Decachlorobiphenyl	63		67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		77		30-150	B
Decachlorobiphenyl	70		73		30-150	B

PESTICIDES

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-01
Client ID: SB017(6-8)
Sample Location: 399 EXTERIOR ST., BRONX, NY

Date Collected: 06/06/19 16:00
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/13/19 12:04
Analyst: BM
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 06/10/19 18:48
Cleanup Method: EPA 3620B
Cleanup Date: 06/12/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.91	0.374	1	A
Lindane	ND		ug/kg	0.796	0.356	1	A
Alpha-BHC	ND		ug/kg	0.796	0.226	1	A
Beta-BHC	ND		ug/kg	1.91	0.724	1	A
Heptachlor	ND		ug/kg	0.955	0.428	1	A
Aldrin	ND		ug/kg	1.91	0.673	1	A
Heptachlor epoxide	ND		ug/kg	3.58	1.07	1	A
Endrin	ND		ug/kg	0.796	0.326	1	A
Endrin aldehyde	ND		ug/kg	2.39	0.836	1	A
Endrin ketone	ND		ug/kg	1.91	0.492	1	A
Dieldrin	ND		ug/kg	1.19	0.597	1	A
4,4'-DDE	ND		ug/kg	1.91	0.442	1	A
4,4'-DDD	ND		ug/kg	1.91	0.682	1	A
4,4'-DDT	ND		ug/kg	3.58	1.54	1	A
Endosulfan I	ND		ug/kg	1.91	0.451	1	A
Endosulfan II	ND		ug/kg	1.91	0.638	1	A
Endosulfan sulfate	ND		ug/kg	0.796	0.379	1	A
Methoxychlor	ND		ug/kg	3.58	1.11	1	A
Toxaphene	ND		ug/kg	35.8	10.0	1	A
cis-Chlordane	ND		ug/kg	2.39	0.666	1	A
trans-Chlordane	3.43	IP	ug/kg	2.39	0.631	1	A
Chlordane	ND		ug/kg	15.5	6.33	1	A

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-01 Date Collected: 06/06/19 16:00

Client ID: SB017(6-8) Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	80		30-150	B
2,4,5,6-Tetrachloro-m-xylene	**452**	Q	30-150	A
Decachlorobiphenyl	44		30-150	A

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-21
Client ID: SB016(6-8)
Sample Location: 399 EXTERIOR ST., BRONX, NY

Date Collected: 06/06/19 13:00
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/13/19 12:16
Analyst: BM
Percent Solids: 72%

Extraction Method: EPA 3546
Extraction Date: 06/10/19 18:48
Cleanup Method: EPA 3620B
Cleanup Date: 06/12/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.16	0.424	1	A
Lindane	ND		ug/kg	0.902	0.403	1	A
Alpha-BHC	ND		ug/kg	0.902	0.256	1	A
Beta-BHC	ND		ug/kg	2.16	0.820	1	A
Heptachlor	ND		ug/kg	1.08	0.485	1	A
Aldrin	ND		ug/kg	2.16	0.762	1	A
Heptachlor epoxide	ND		ug/kg	4.06	1.22	1	A
Endrin	ND		ug/kg	0.902	0.370	1	A
Endrin aldehyde	ND		ug/kg	2.70	0.947	1	A
Endrin ketone	ND		ug/kg	2.16	0.557	1	A
Dieldrin	ND		ug/kg	1.35	0.676	1	A
4,4'-DDE	ND		ug/kg	2.16	0.500	1	A
4,4'-DDD	ND		ug/kg	2.16	0.772	1	A
4,4'-DDT	ND		ug/kg	4.06	1.74	1	A
Endosulfan I	ND		ug/kg	2.16	0.511	1	A
Endosulfan II	ND		ug/kg	2.16	0.723	1	A
Endosulfan sulfate	ND		ug/kg	0.902	0.429	1	A
Methoxychlor	ND		ug/kg	4.06	1.26	1	A
Toxaphene	ND		ug/kg	40.6	11.4	1	A
cis-Chlordane	ND		ug/kg	2.70	0.754	1	A
trans-Chlordane	ND		ug/kg	2.70	0.714	1	A
Chlordane	ND		ug/kg	17.6	7.17	1	A

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-21 Date Collected: 06/06/19 13:00

Client ID: SB016(6-8) Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	66		30-150	B
2,4,5,6-Tetrachloro-m-xylene	**5680**	Q	30-150	A
Decachlorobiphenyl	33		30-150	A

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/13/19 09:47
Analyst: BM

Extraction Method: EPA 3546
Extraction Date: 06/10/19 18:47
Cleanup Method: EPA 3620B
Cleanup Date: 06/11/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,21 Batch: WG1246652-1						
Delta-BHC	ND		ug/kg	1.55	0.304	A
Lindane	ND		ug/kg	0.646	0.289	A
Alpha-BHC	ND		ug/kg	0.646	0.183	A
Beta-BHC	ND		ug/kg	1.55	0.588	A
Heptachlor	ND		ug/kg	0.775	0.348	A
Aldrin	ND		ug/kg	1.55	0.546	A
Heptachlor epoxide	ND		ug/kg	2.91	0.872	A
Endrin	ND		ug/kg	0.646	0.265	A
Endrin aldehyde	ND		ug/kg	1.94	0.678	A
Endrin ketone	ND		ug/kg	1.55	0.399	A
Dieldrin	ND		ug/kg	0.969	0.484	A
4,4'-DDE	ND		ug/kg	1.55	0.358	A
4,4'-DDD	ND		ug/kg	1.55	0.553	A
4,4'-DDT	ND		ug/kg	2.91	1.25	A
Endosulfan I	ND		ug/kg	1.55	0.366	A
Endosulfan II	ND		ug/kg	1.55	0.518	A
Endosulfan sulfate	ND		ug/kg	0.646	0.307	A
Methoxychlor	ND		ug/kg	2.91	0.904	A
Toxaphene	ND		ug/kg	29.1	8.14	A
cis-Chlordane	ND		ug/kg	1.94	0.540	A
trans-Chlordane	ND		ug/kg	1.94	0.512	A
Chlordane	ND		ug/kg	12.6	5.14	A

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/13/19 09:47
Analyst: BM

Extraction Method: EPA 3546
Extraction Date: 06/10/19 18:47
Cleanup Method: EPA 3620B
Cleanup Date: 06/11/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,21 Batch: WG1246652-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		30-150	B
Decachlorobiphenyl	135		30-150	B
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	78		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 399 EXTERIOR STREET

Project Number: LST1802

Lab Number: L1924473

Report Date: 07/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,21 Batch: WG1246652-2 WG1246652-3									
Delta-BHC	89		95		30-150	7		30	A
Lindane	87		92		30-150	6		30	A
Alpha-BHC	88		93		30-150	6		30	A
Beta-BHC	82		87		30-150	6		30	A
Heptachlor	73		75		30-150	3		30	A
Aldrin	76		81		30-150	6		30	A
Heptachlor epoxide	83		87		30-150	5		30	A
Endrin	86		93		30-150	8		30	A
Endrin aldehyde	58		61		30-150	5		30	A
Endrin ketone	75		80		30-150	6		30	A
Dieldrin	85		92		30-150	8		30	A
4,4'-DDE	81		88		30-150	8		30	A
4,4'-DDD	87		94		30-150	8		30	A
4,4'-DDT	88		95		30-150	8		30	A
Endosulfan I	73		78		30-150	7		30	A
Endosulfan II	81		86		30-150	6		30	A
Endosulfan sulfate	66		70		30-150	6		30	A
Methoxychlor	72		75		30-150	4		30	A
cis-Chlordane	76		80		30-150	5		30	A
trans-Chlordane	79		83		30-150	5		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 399 EXTERIOR STREET

Project Number: LST1802

Lab Number: L1924473

Report Date: 07/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,21 Batch: WG1246652-2 WG1246652-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		96		30-150	B
Decachlorobiphenyl	100		110		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		83		30-150	A
Decachlorobiphenyl	73		77		30-150	A

METALS

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-01
Client ID: SB017(6-8)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Date Collected: 06/06/19 16:00
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.68		mg/kg	0.479	0.100	1	06/12/19 19:13	06/13/19 22:46	EPA 3050B	1,6010D	AB
Barium, Total	66.6		mg/kg	0.479	0.083	1	06/12/19 19:13	06/13/19 22:46	EPA 3050B	1,6010D	AB
Copper, Total	21.8		mg/kg	0.479	0.124	1	06/12/19 19:13	06/13/19 22:46	EPA 3050B	1,6010D	AB
Lead, Total	227		mg/kg	2.39	0.128	1	06/12/19 19:13	06/13/19 22:46	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.088	0.057	1	06/13/19 16:44	06/13/19 19:48	EPA 7471B	1,7471B	EA

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-02
Client ID: SB003(8-10)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Date Collected: 06/06/19 08:00
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	46.1		mg/kg	2.26	0.121	1	06/12/19 19:13	06/13/19 22:51	EPA 3050B	1,6010D	AB

Project Name: 399 EXTERIOR STREET
Lab Number: L1924473
Project Number: LST1802
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-03
Client ID: SB003(10-12)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Date Collected: 06/06/19 08:05
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 62%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	125		mg/kg	3.09	0.166	1	06/12/19 19:13	06/13/19 22:55	EPA 3050B	1,6010D	AB

Project Name: 399 EXTERIOR STREET
Lab Number: L1924473
Project Number: LST1802
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-04
Client ID: SB003(12-14)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Date Collected: 06/06/19 08:10
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 60%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	19.6		mg/kg	3.12	0.168	1	06/12/19 19:13	06/13/19 22:59	EPA 3050B	1,6010D	AB

Project Name: 399 EXTERIOR STREET
Lab Number: L1924473
Project Number: LST1802
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-08
Client ID: SB013(6-8)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Date Collected: 06/06/19 10:00
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.02		mg/kg	0.440	0.092	1	06/12/19 19:13	06/13/19 23:08	EPA 3050B	1,6010D	AB
Barium, Total	65.9		mg/kg	0.440	0.077	1	06/12/19 19:13	06/13/19 23:08	EPA 3050B	1,6010D	AB
Copper, Total	23.8		mg/kg	0.440	0.114	1	06/12/19 19:13	06/13/19 23:08	EPA 3050B	1,6010D	AB
Lead, Total	10.0		mg/kg	2.20	0.118	1	06/12/19 19:13	06/13/19 23:08	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.079	0.052	1	06/13/19 16:44	06/13/19 19:54	EPA 7471B	1,7471B	EA

Project Name: 399 EXTERIOR STREET
Lab Number: L1924473
Project Number: LST1802
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-11
Client ID: SB011(8-10)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Date Collected: 06/06/19 08:20
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	189		mg/kg	2.50	0.134	1	06/12/19 19:13	06/13/19 23:22	EPA 3050B	1,6010D	AB

Project Name: 399 EXTERIOR STREET
Lab Number: L1924473
Project Number: LST1802
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-12
Client ID: SB011(10-12)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Date Collected: 06/06/19 08:25
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	487		mg/kg	2.65	0.142	1	06/12/19 19:13	06/13/19 23:26	EPA 3050B	1,6010D	AB

Project Name: 399 EXTERIOR STREET
Lab Number: L1924473
Project Number: LST1802
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-13
Client ID: SB011(12-14)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Date Collected: 06/06/19 08:25
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	57.6		mg/kg	2.29	0.123	1	06/25/19 13:47	06/25/19 15:16	EPA 3050B	1,6010D	LC

Project Name: 399 EXTERIOR STREET
Lab Number: L1924473
Project Number: LST1802
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-15
Client ID: SB005(4-6)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Date Collected: 06/06/19 11:05
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	3.02		mg/kg	2.05	0.110	1	06/12/19 19:13	06/13/19 23:30	EPA 3050B	1,6010D	AB

Project Name: 399 EXTERIOR STREET
Lab Number: L1924473
Project Number: LST1802
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-16
Client ID: SB006(8-10)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Date Collected: 06/06/19 11:10
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Copper, Total	38.3		mg/kg	0.413	0.106	1	06/12/19 19:13	06/13/19 23:35	EPA 3050B	1,6010D	AB

Project Name: 399 EXTERIOR STREET
Lab Number: L1924473
Project Number: LST1802
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-18
Client ID: SB001(6-8)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Date Collected: 06/06/19 11:20
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	48.3		mg/kg	2.17	0.116	1	06/12/19 20:26	06/13/19 17:52	EPA 3050B	1,6010D	AB

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-21
Client ID: SB016(6-8)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Date Collected: 06/06/19 13:00
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	16.9		mg/kg	0.552	0.115	1	06/12/19 20:26	06/13/19 17:57	EPA 3050B	1,6010D	AB
Barium, Total	44.2		mg/kg	0.552	0.096	1	06/12/19 20:26	06/13/19 17:57	EPA 3050B	1,6010D	AB
Copper, Total	5470		mg/kg	5.52	1.42	10	06/12/19 20:26	06/13/19 23:02	EPA 3050B	1,6010D	AB
Lead, Total	3160		mg/kg	2.76	0.148	1	06/12/19 20:26	06/13/19 17:57	EPA 3050B	1,6010D	AB
Mercury, Total	0.428		mg/kg	0.108	0.070	1	06/13/19 16:44	06/13/19 19:56	EPA 7471B	1,7471B	EA

Project Name: 399 EXTERIOR STREET
Lab Number: L1924473
Project Number: LST1802
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-22
Client ID: SB016(8-10)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Date Collected: 06/06/19 13:10
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 56%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	22.1		mg/kg	0.709	0.147	1	06/20/19 21:06	06/24/19 13:35	EPA 3050B	1,6010D	LC
Copper, Total	16300		mg/kg	7.09	1.83	10	06/20/19 21:06	06/24/19 17:42	EPA 3050B	1,6010D	LC
Lead, Total	988		mg/kg	3.54	0.190	1	06/20/19 21:06	06/24/19 13:35	EPA 3050B	1,6010D	LC

Project Name: 399 EXTERIOR STREET
Lab Number: L1924473
Project Number: LST1802
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-23
Client ID: SB016(10-12)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Date Collected: 06/06/19 13:20
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 59%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	7.99		mg/kg	0.650	0.135	1	07/02/19 15:06	07/02/19 16:52	EPA 3050B	1,6010D	AB
Copper, Total	18.1		mg/kg	0.650	0.168	1	07/02/19 15:06	07/02/19 16:52	EPA 3050B	1,6010D	AB
Lead, Total	13.9		mg/kg	3.25	0.174	1	07/02/19 15:06	07/02/19 16:52	EPA 3050B	1,6010D	AB

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

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): 01-04,08,11-12,15-16 Batch: WG1247608-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	06/12/19 19:13	06/13/19 19:48	1,6010D	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	06/12/19 19:13	06/13/19 19:48	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	06/12/19 19:13	06/13/19 19:48	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	06/12/19 19:13	06/13/19 19:48	1,6010D	AB

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): 18,21 Batch: WG1247624-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	06/12/19 20:26	06/13/19 17:19	1,6010D	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	06/12/19 20:26	06/13/19 17:19	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	06/12/19 20:26	06/13/19 17:19	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	06/12/19 20:26	06/13/19 17:19	1,6010D	AB

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): 01,08,21 Batch: WG1248131-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	06/13/19 16:44	06/13/19 18:52	1,7471B	EA

Prep Information

Digestion Method: EPA 7471B

Project Name: 399 EXTERIOR STREET **Lab Number:** L1924473

Project Number: LST1802 **Report Date:** 07/02/19

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): 22 Batch: WG1251112-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC

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): 13 Batch: WG1252660-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	06/25/19 10:41	06/25/19 12:22	1,6010D	LC

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): 23 Batch: WG1255860-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	07/02/19 15:06	07/02/19 16:43	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	07/02/19 15:06	07/02/19 16:43	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	07/02/19 15:06	07/02/19 16:43	1,6010D	AB

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 399 EXTERIOR STREET

Project Number: LST1802

Lab Number: L1924473

Report Date: 07/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04,08,11-12,15-16 Batch: WG1247608-2 SRM Lot Number: D105-540								
Arsenic, Total	108		-		70-130	-		
Barium, Total	92		-		75-125	-		
Copper, Total	96		-		75-125	-		
Lead, Total	97		-		71-128	-		
Total Metals - Mansfield Lab Associated sample(s): 18,21 Batch: WG1247624-2 SRM Lot Number: D105-540								
Arsenic, Total	111		-		70-130	-		
Barium, Total	99		-		75-125	-		
Copper, Total	104		-		75-125	-		
Lead, Total	102		-		71-128	-		
Total Metals - Mansfield Lab Associated sample(s): 01,08,21 Batch: WG1248131-2 SRM Lot Number: D105-540								
Mercury, Total	88		-		60-141	-		
Total Metals - Mansfield Lab Associated sample(s): 22 Batch: WG1251112-2 SRM Lot Number: D105-540								
Arsenic, Total	110		-		70-130	-		
Copper, Total	101		-		75-125	-		
Lead, Total	102		-		71-128	-		
Total Metals - Mansfield Lab Associated sample(s): 13 Batch: WG1252660-2 SRM Lot Number: D105-540								
Lead, Total	102		-		71-128	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 399 EXTERIOR STREET

Project Number: LST1802

Lab Number: L1924473

Report Date: 07/02/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 23 Batch: WG1255860-2 SRM Lot Number: D105-540					
Arsenic, Total	103	-	70-130	-	
Copper, Total	99	-	75-125	-	
Lead, Total	91	-	71-128	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 399 EXTERIOR STREET
Project Number: LST1802

Lab Number: L1924473
Report Date: 07/02/19

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): 01-04,08,11-12,15-16 QC Batch ID: WG1247608-3 QC Sample: L1923585-01 Client ID: MS Sample												
Arsenic, Total	2.40	10.4	13.6	107		-	-		75-125	-		20
Barium, Total	40.1	174	206	95		-	-		75-125	-		20
Copper, Total	13.8	21.7	35.3	99		-	-		75-125	-		20
Lead, Total	40.8	44.3	82.7	94		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 18,21 QC Batch ID: WG1247624-3 QC Sample: L1924561-28 Client ID: MS Sample												
Arsenic, Total	3.84	10.7	15.6	110		-	-		75-125	-		20
Barium, Total	32.1	179	207	98		-	-		75-125	-		20
Copper, Total	6.48	22.3	29.1	101		-	-		75-125	-		20
Lead, Total	7.66	45.6	51.8	97		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01,08,21 QC Batch ID: WG1248131-3 WG1248131-4 QC Sample: L1924424-01 Client ID: MS Sample												
Mercury, Total	ND	0.172	0.176	102		0.169	99		80-120	4		20
Total Metals - Mansfield Lab Associated sample(s): 01,08,21 QC Batch ID: WG1248131-5 WG1248131-6 QC Sample: L1924424-03 Client ID: MS Sample												
Mercury, Total	ND	0.151	0.152	101		0.163	101		80-120	7		20
Total Metals - Mansfield Lab Associated sample(s): 22 QC Batch ID: WG1251112-3 QC Sample: L1925770-03 Client ID: MS Sample												
Arsenic, Total	1.90	10.7	12.6	100		-	-		75-125	-		20
Copper, Total	15.6	22.3	35.6	90		-	-		75-125	-		20
Lead, Total	12.9	45.6	51.3	84		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 13 QC Batch ID: WG1252660-3 QC Sample: L1927515-01 Client ID: MS Sample												
Lead, Total	15.7	46.3	55.0	85		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 399 EXTERIOR STREET
Project Number: LST1802

Lab Number: L1924473
Report Date: 07/02/19

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): 23 QC Batch ID: WG1255860-3 QC Sample: L1924473-23 Client ID: SB016(10-12)									
Arsenic, Total	7.99	15.5	21.9	90	-	-	75-125	-	20
Copper, Total	18.1	32.3	42.5	75	-	-	75-125	-	20
Lead, Total	13.9	66	63.8	76	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 399 EXTERIOR STREET
Project Number: LST1802

Lab Number: L1924473
Report Date: 07/02/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04,08,11-12,15-16 QC Batch ID: WG1247608-4 QC Sample: L1923585-01 Client ID: DUP Sample						
Arsenic, Total	2.40	4.44	mg/kg	**60**	Q	20
Barium, Total	40.1	61.3	mg/kg	**42**	Q	20
Lead, Total	40.8	107	mg/kg	**90**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 18,21 QC Batch ID: WG1247624-4 QC Sample: L1924561-28 Client ID: DUP Sample						
Arsenic, Total	3.84	5.28	mg/kg	**32**	Q	20
Barium, Total	32.1	32.6	mg/kg	2		20
Copper, Total	6.48	7.47	mg/kg	14		20
Lead, Total	7.66	8.38	mg/kg	9		20
Total Metals - Mansfield Lab Associated sample(s): 22 QC Batch ID: WG1251112-4 QC Sample: L1925770-03 Client ID: DUP Sample						
Arsenic, Total	1.90	1.75	mg/kg	8		20
Copper, Total	15.6	16.8	mg/kg	7		20
Lead, Total	12.9	8.80	mg/kg	**38**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 13 QC Batch ID: WG1252660-4 QC Sample: L1927515-01 Client ID: DUP Sample						
Lead, Total	15.7	15.1	mg/kg	4		20
Total Metals - Mansfield Lab Associated sample(s): 23 QC Batch ID: WG1255860-4 QC Sample: L1924473-23 Client ID: SB016(10-12)						
Arsenic, Total	7.99	8.35	mg/kg	4		20
Copper, Total	18.1	19.0	mg/kg	5		20
Lead, Total	13.9	13.5	mg/kg	3		20

INORGANICS
&
MISCELLANEOUS

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-01
Client ID: SB017(6-8)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/06/19 16:00
Date Received: 06/07/19
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	81.5		%	0.100	NA	1	-	06/08/19 12:50	121,2540G	RI

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-02
Client ID: SB003(8-10)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/06/19 08:00
Date Received: 06/07/19
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	84.4		%	0.100	NA	1	-	06/08/19 12:50	121,2540G	RI

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-03
Client ID: SB003(10-12)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/06/19 08:05
Date Received: 06/07/19
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	61.5		%	0.100	NA	1	-	06/08/19 12:50	121,2540G	RI

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-04
Client ID: SB003(12-14)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/06/19 08:10
Date Received: 06/07/19
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	60.1		%	0.100	NA	1	-	06/08/19 12:50	121,2540G	RI

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-06
Client ID: SB008(8-10)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/06/19 13:00
Date Received: 06/07/19
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	84.5		%	0.100	NA	1	-	06/08/19 12:50	121,2540G	RI

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-07
Client ID: SB008(10-12)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/06/19 13:05
Date Received: 06/07/19
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	71.8		%	0.100	NA	1	-	06/18/19 11:00	121,2540G	RI

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-08
Client ID: SB013(6-8)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Date Collected: 06/06/19 10:00
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.4		%	0.100	NA	1	-	06/08/19 12:50	121,2540G	RI

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-11
Client ID: SB011(8-10)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/06/19 08:20
Date Received: 06/07/19
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	77.6		%	0.100	NA	1	-	06/08/19 12:50	121,2540G	RI

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-12
Client ID: SB011(10-12)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/06/19 08:25
Date Received: 06/07/19
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	74.9		%	0.100	NA	1	-	06/08/19 12:50	121,2540G	RI

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-13
Client ID: SB011(12-14)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/06/19 08:25
Date Received: 06/07/19
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	84.0		%	0.100	NA	1	-	06/15/19 14:38	121,2540G	RI

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-15
Client ID: SB005(4-6)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/06/19 11:05
Date Received: 06/07/19
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	95.2		%	0.100	NA	1	-	06/08/19 12:50	121,2540G	RI

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-16
Client ID: SB006(8-10)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/06/19 11:10
Date Received: 06/07/19
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	91.4		%	0.100	NA	1	-	06/08/19 12:50	121,2540G	RI

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-18
Client ID: SB001(6-8)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/06/19 11:20
Date Received: 06/07/19
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	88.6		%	0.100	NA	1	-	06/08/19 12:50	121,2540G	RI

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-19
Client ID: SB001(8-10)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/06/19 11:25
Date Received: 06/07/19
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	80.7		%	0.100	NA	1	-	06/18/19 11:00	121,2540G	RI

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-21
Client ID: SB016(6-8)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/06/19 13:00
Date Received: 06/07/19
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	72.4		%	0.100	NA	1	-	06/08/19 12:50	121,2540G	RI

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-22
Client ID: SB016(8-10)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/06/19 13:10
Date Received: 06/07/19
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	55.7		%	0.100	NA	1	-	06/22/19 09:58	121,2540G	RI

Project Name: 399 EXTERIOR STREET
Project Number: LST1802
Lab Number: L1924473
Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-23
Client ID: SB016(10-12)
Sample Location: 399 EXTERIOR ST., BRONX, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/06/19 13:20
Date Received: 06/07/19
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	59.2		%	0.100	NA	1	-	06/26/19 08:47	121,2540G	RI

Lab Duplicate Analysis
Batch Quality Control

Project Name: 399 EXTERIOR STREET
Project Number: LST1802

Lab Number: L1924473
Report Date: 07/02/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 13 QC Batch ID: WG1249040-1 QC Sample: L1924899-06 Client ID: DUP Sample						
Solids, Total	84.7	84.7	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 07,19 QC Batch ID: WG1249853-1 QC Sample: L1926023-01 Client ID: DUP Sample						
Solids, Total	90.8	91.6	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 22 QC Batch ID: WG1251831-1 QC Sample: L1927281-01 Client ID: DUP Sample						
Solids, Total	86.2	88.9	%	3		20
General Chemistry - Westborough Lab Associated sample(s): 23 QC Batch ID: WG1253167-1 QC Sample: L1924473-23 Client ID: SB016(10-12)						
Solids, Total	59.2	59.1	%	0		20

Project Name: 399 EXTERIOR STREET
Project Number: LST1802

Lab Number: L1924473
Report Date: 07/02/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1924473-01A	Glass 60ml unpreserved split	A	NA		3.1	Y	Absent		AS-TI(180),BA-TI(180),CU-TI(180),PB-TI(180),HG-T(28)
L1924473-01B	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1924473-02A	Glass 60ml unpreserved split	A	NA		3.1	Y	Absent		PB-TI(180)
L1924473-02B	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		TS(7)
L1924473-03A	Glass 60ml unpreserved split	A	NA		3.1	Y	Absent		PB-TI(180)
L1924473-03B	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		TS(7)
L1924473-04A	Glass 60ml unpreserved split	A	NA		3.1	Y	Absent		PB-TI(180)
L1924473-04B	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		TS(7)
L1924473-05A	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		HOLD-WETCHEM(),HOLD-METAL(180)
L1924473-06B	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TS(7)
L1924473-07A	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TS(7),HOLD-8270(14)
L1924473-08A	Glass 60ml unpreserved split	A	NA		3.1	Y	Absent		AS-TI(180),BA-TI(180),CU-TI(180),PB-TI(180),HG-T(28)
L1924473-08B	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TS(7)
L1924473-09A	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		HOLD-8270(14),HOLD-METAL(180)
L1924473-10A	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		HOLD-8270(14),HOLD-METAL(180)
L1924473-11A	Glass 60ml unpreserved split	A	NA		3.1	Y	Absent		PB-TI(180)
L1924473-11B	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		TS(7)
L1924473-12A	Glass 60ml unpreserved split	A	NA		3.1	Y	Absent		PB-TI(180)
L1924473-12B	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		TS(7)
L1924473-13A	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		TS(7)
L1924473-13X	Glass 60ml unpreserved split	A	NA		3.1	Y	Absent		PB-TI(180)
L1924473-14A	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		HOLD-8270(14),HOLD-METAL(180)

*Values in parentheses indicate holding time in days

Project Name: 399 EXTERIOR STREET
Project Number: LST1802

Lab Number: L1924473
Report Date: 07/02/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1924473-15A	Glass 60ml unpreserved split	A	NA		3.1	Y	Absent		PB-TI(180)
L1924473-15B	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TS(7)
L1924473-16A	Glass 60ml unpreserved split	A	NA		3.1	Y	Absent		CU-TI(180)
L1924473-16B	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		TS(7)
L1924473-17A	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		HOLD-WETCHEM(),HOLD-METAL(180)
L1924473-18A	Glass 60ml unpreserved split	A	NA		3.1	Y	Absent		PB-TI(180)
L1924473-18B	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TS(7)
L1924473-19A	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TS(7)
L1924473-20A	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		S-EXT-8270(14),HOLD-8270(14),HOLD-METAL(180)
L1924473-21A	Vial MeOH preserved	A	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1924473-21B	Vial water preserved	A	NA		3.1	Y	Absent	08-JUN-19 02:29	NYTCL-8260HLW(14)
L1924473-21C	Vial water preserved	A	NA		3.1	Y	Absent	08-JUN-19 02:29	NYTCL-8260HLW(14)
L1924473-21D	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		AS-TI(180),BA-TI(180),CU-TI(180),PB-TI(180),HG-T(28)
L1924473-21E	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1924473-22A	Vial MeOH preserved	A	NA		3.1	Y	Absent		HOLD-8260HLW(14)
L1924473-22B	Vial water preserved	A	NA		3.1	Y	Absent	08-JUN-19 07:22	HOLD-8260HLW(14)
L1924473-22C	Vial water preserved	A	NA		3.1	Y	Absent	08-JUN-19 02:29	HOLD-8260HLW(14)
L1924473-22D	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		AS-TI(180),CU-TI(180),PB-TI(180)
L1924473-22E	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		HOLD-WETCHEM(),TS(7)
L1924473-23A	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),AS-TI(180),TS(7),CU-TI(180),PB-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	399 EXTERIOR STREET	**Lab Number:**	L1924473
Project Number:	LST1802	**Report Date:**	07/02/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers

Project Name:	399 EXTERIOR STREET	**Lab Number:**	L1924473
Project Number:	LST1802	**Report Date:**	07/02/19

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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.

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).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	399 EXTERIOR STREET	**Lab Number:**	L1924473
Project Number:	LST1802	**Report Date:**	07/02/19

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
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: Chloride, 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, SM4500Cl-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: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, 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 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA ANALYTICAL

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

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 1 of 3

Date Rec'd in Lab: 6/7/19

ALPHA Job #: L1922473

Client Information
Client: PW Grosser Consulting
Address: 630 Johnson Ave Bohemia NY 11716
Phone: 631-589-6353
Fax:
Email: derek@pwgrosser.com

Project Information
Project Name: 399 Exterior Street
Project Location: 399 Exterior St. Bronx, NY
Project #: LST1002
(Use Project name as Project #)
Project Manager: Derek Ersbak
ALPHAQuote #: 8331

Turn-Around Time
Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:
Hold Sample

Please specify Metals or TAL.

Deliverables
[ ] ASP-A [ ] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Regulatory Requirement
[ ] NY TOGS [ ] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Billing Information
[ ] Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SVOCs (Part 375 List)	As, Ba, Cu, Pb, Hg (Part 375 List)	Pest (Part 375 List)	PCBs (Part 375 List)	Pb				Total Bottle	Sample Specific Comments
24473-01	SB01 (6-8)	6/6/19	1600	S	JC	X	X	X	X					1	
-02	SB003 (8-10)		0800							X				1	
-03	SB003 (10-12)		805							X				1	
-04	SB003 (12-14)		810							X				1	
-05	SB003 (14-16)		815							X				1	*Hold*
-06	SB008 (8-10)		1300			X								1	
-07	SB008 (10-12)		1305			X								1	*Hold*
-08	SB013 (6-8)		1000			X	X							1	
-09	SB013 (8-10)		1005			X	X							1	*Hold*
-10	SB013 (10-12)		1015			X	X							1	*Hold*
Container Type						A	A	A	A	A					
Preservative						A	A	A	A	A					

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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

Relinquished By:	Date/Time	Received By:	Date/Time
	6/7/19 800		
Michael Grosser-AMP	6/7/19 15:50	Paul Maggiulli	6/7/19 1600
Paul Maggiulli	6/7/19 2210		6/7/19 2210

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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 3

Date Rec'd in Lab

ALPHA Job #

Client Information
Client: PW Grosser Consulting
Address: 630 Johnson Ave
Bohemia NY 11716
Phone: 631-589-6353
Fax:
Email: Derek@pwgrosser.com

Project Information
Project Name: 349 Exterior Street
Project Location: 349 Exterior Street, Bronx, NY
Project # LST1802
(Use Project name as Project #) ☐
Project Manager: Derek Ersbak
ALPHAQuote #: 8331

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

* = Hold Sample

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Pb	SVOCs (Part 375 List)	CU	Sample Specific Comments	Total Bottle
24473-11	SB011 (8-10)	6/6/19	820	S	JC	X				1
12	SB011 (10-12)		825	S	JC	X				1
13	SB011 (12-14)		825	S	JC	X			*Hold*	1
14	SB005 (6-8)		1100			X	X		*Hold*	1
15	SB005 (4-6)		1105			X	X			1
16	SB006 (8-10)		1110					X		1
17	SB006 (10-12)		1115					X	*Hold*	1
18	SB001 (6-8)		1120			X	X			1
19	SB001 (8-10)		1125			X	X		*Hold*	1
20	SB001 (10-12)		1130			X	X		*Hold*	1
	Container Type					A	A	A		
	Preservative					A	A	A		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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

Relinquished By:	Date/Time	Received By:	Date/Time
	6/7/19 800	Alex Lore-AAL	6/7/19 9:51
Alex Lore-AAL	6/7/19 15:50	Paul Magella	6/7/19 16:30
Paul Magella	6/7/19 2210		6/7/19 2210

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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 3 of 3

Date Rec'd in Lab

ALPHA Job #

Client Information

Client: PW Grosser Consulting
Address: 63 Suchasun Ave
Bohemia NY 11716
Phone: 631-589-6353
Fax:
Email: derek@pwgrosser.com

Project Information

Project Name: 399 Exterior Street
Project Location: 399 Exterior Street, Bronx NY
Project # LST1802
(Use Project name as Project #) ☐
Project Manager: Derek Ersbak
ALPHAQuote #: 0331

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

* = Hold Sample.

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	SVOCs (Part 375 List)	As, Ba, Cr, Cu, Pb, Hg	Pest (Part 375 List)	PCBs (Part 375 List)				Sample Specific Comments	Total Bottle
24473-21	SB016(6-8)	6/6/19	1300	S	SC	X	X	X	X	X					3
22	SB016(8-10)	↓	1314	S	↓	X								*Hold*	3
23	SB016(10-12)	↓	1320	S	↓									*Hold*	1
														~~*Hold*~~ ?	

Container Type: V A A A A
Preservative: A A A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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

Relinquished By:	Date/Time	Received By:	Date/Time
	6/7/19 800	Paul Grasso AMP	6/7/19 9:50
Paul Grasso AMP	6/7/19 15:50	Paul Mazzella	6/7/19 1630
Paul Mazzella	6/7/19 2210		6/7/19 2210

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1929439
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Derek Ersbak
Phone:	(631) 589-6353
Project Name:	355 EXTERIOR ST.
Project Number:	LST1802 TASK 07
Report Date:	08/05/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1929439-01	SB018 (0'-3')	SOIL	355 EXTERIOR ST., BRONX, NY	07/05/19 09:30	07/08/19
L1929439-02	SB018 (3'-6')	SOIL	355 EXTERIOR ST., BRONX, NY	07/05/19 09:35	07/08/19
L1929439-03	SB018 (6'-9')	SOIL	355 EXTERIOR ST., BRONX, NY	07/05/19 09:40	07/08/19
L1929439-04	SB019 (0'-3')	SOIL	355 EXTERIOR ST., BRONX, NY	07/05/19 10:25	07/08/19
L1929439-05	SB019 (3'-6')	SOIL	355 EXTERIOR ST., BRONX, NY	07/05/19 10:30	07/08/19
L1929439-06	SB019 (6'-9')	SOIL	355 EXTERIOR ST., BRONX, NY	07/05/19 10:35	07/08/19
L1929439-07	SB020 (0'-3')	SOIL	355 EXTERIOR ST., BRONX, NY	07/05/19 11:00	07/08/19
L1929439-08	SB021 (0'-3')	SOIL	355 EXTERIOR ST., BRONX, NY	07/05/19 11:45	07/08/19
L1929439-09	SB021 (3'-6')	SOIL	355 EXTERIOR ST., BRONX, NY	07/05/19 11:50	07/08/19
L1929439-10	SB021 (6'-9')	SOIL	355 EXTERIOR ST., BRONX, NY	07/05/19 11:55	07/08/19
L1929439-11	SB022 (0'-3')	SOIL	355 EXTERIOR ST., BRONX, NY	07/05/19 12:45	07/08/19
L1929439-12	SB023 (0'-3')	SOIL	355 EXTERIOR ST., BRONX, NY	07/05/19 13:50	07/08/19
L1929439-13	SB023 (3'-6')	SOIL	355 EXTERIOR ST., BRONX, NY	07/05/19 13:55	07/08/19
L1929439-14	SB023 (6'-9')	SOIL	355 EXTERIOR ST., BRONX, NY	07/05/19 14:00	07/08/19

Project Name:	355 EXTERIOR ST.	**Lab Number:**	L1929439
Project Number:	LST1802 TASK 07	**Report Date:**	08/05/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name:	355 EXTERIOR ST.	**Lab Number:**	L1929439
Project Number:	LST1802 TASK 07	**Report Date:**	08/05/19

Case Narrative (continued)

Report Submission

August 05, 2019: This final report includes the results of all requested analyses.

July 30, 2019: This preliminary report includes the results of the Total Metals analysis performed on L1929439-06.

July 22, 2019: This preliminary report includes the results of the Semivolatile Organics analysis performed on L1929439-10.

July 19, 2019: This preliminary report includes the results of the TAL Metals analysis performed on L1929439-02, -04, -05, -08, -09, -12, and -13.

July 16, 2019: 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.

Total Metals

L1929439-01, -02, -04, -05, -07, -08, -09, -11, -12, and -13: 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.

The WG1265731-3 MS recovery, performed on L1929439-06, is outside the acceptance criteria for lead (70%). A post digestion spike was performed and yielded an unacceptable recovery (73%). The serial dilution recovery was not acceptable; therefore, this element fails the matrix test and the result reported in the native sample should be considered estimated.

The WG1265731-4 Laboratory Duplicate RPD for lead (37%), performed on L1929439-06, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

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: Lisa Westerlind

Title: Technical Director/Representative Date: 08/05/19

ORGANICS

SEMIVOLATILES

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07
Lab Number: L1929439
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-01
Client ID: SB018 (0'-3')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 09:30
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/13/19 06:38
Analyst: CB
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 07/11/19 21:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	23	J	ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	31.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	46.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	680		ug/kg	100	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	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	31	J	ug/kg	180	21.	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	60.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	50	J	ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-01 Date Collected: 07/05/19 09:30

Client ID: SB018 (0'-3') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

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	380		ug/kg	100	20.	1
Benzo(a)pyrene	360		ug/kg	140	43.	1
Benzo(b)fluoranthene	450		ug/kg	100	29.	1
Benzo(k)fluoranthene	170		ug/kg	100	28.	1
Chrysene	380		ug/kg	100	18.	1
Acenaphthylene	88	J	ug/kg	140	27.	1
Anthracene	98	J	ug/kg	100	34.	1
Benzo(ghi)perylene	240		ug/kg	140	20.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	350		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	57	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	250		ug/kg	140	24.	1
Pyrene	650		ug/kg	100	17.	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	72.	1
Dibenzofuran	19	J	ug/kg	180	16.	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
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	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	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-01 Date Collected: 07/05/19 09:30

Client ID: SB018 (0'-3') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	38	J	ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	77		18-120

Project Name: 355 EXTERIOR ST.
Lab Number: L1929439
Project Number: LST1802 TASK 07
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-02
Client ID: SB018 (3'-6')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 09:35
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/13/19 06:11
Analyst: CB
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 07/11/19 21:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	94	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	1200		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	170	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	120	J	ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-02 Date Collected: 07/05/19 09:35

Client ID: SB018 (3'-6') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	480		ug/kg	110	21.	1
Benzo(a)pyrene	370		ug/kg	150	45.	1
Benzo(b)fluoranthene	520		ug/kg	110	31.	1
Benzo(k)fluoranthene	190		ug/kg	110	29.	1
Chrysene	500		ug/kg	110	19.	1
Acenaphthylene	86	J	ug/kg	150	28.	1
Anthracene	220		ug/kg	110	36.	1
Benzo(ghi)perylene	250		ug/kg	150	22.	1
Fluorene	130	J	ug/kg	180	18.	1
Phenanthrene	1100		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	61	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	250		ug/kg	150	26.	1
Pyrene	1000		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	110	J	ug/kg	180	17.	1
2-Methylnaphthalene	93	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-02 Date Collected: 07/05/19 09:35

Client ID: SB018 (3'-6') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	94	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		25-120
Phenol-d6	46		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	41		10-136
4-Terphenyl-d14	60		18-120

Project Name: 355 EXTERIOR ST.
Lab Number: L1929439
Project Number: LST1802 TASK 07
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-04
Client ID: SB019 (0'-3')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 10:25
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/13/19 07:59
Analyst: CB
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 07/11/19 21:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	26	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	850		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	58	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	490		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-04 Date Collected: 07/05/19 10:25

Client ID: SB019 (0'-3') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	620		ug/kg	110	20.	1
Benzo(a)pyrene	580		ug/kg	150	44.	1
Benzo(b)fluoranthene	700		ug/kg	110	31.	1
Benzo(k)fluoranthene	260		ug/kg	110	29.	1
Chrysene	720		ug/kg	110	19.	1
Acenaphthylene	330		ug/kg	150	28.	1
Anthracene	160		ug/kg	110	36.	1
Benzo(ghi)perylene	420		ug/kg	150	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	410		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	110		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	410		ug/kg	150	25.	1
Pyrene	910		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	24	J	ug/kg	180	17.	1
2-Methylnaphthalene	32	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	69.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-04 Date Collected: 07/05/19 10:25

Client ID: SB019 (0'-3') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	45	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	66		18-120

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07
Lab Number: L1929439
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-05
Client ID: SB019 (3'-6')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 10:30
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/13/19 08:27
Analyst: CB
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 07/11/19 21:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	61	J	ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	780		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	72	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	170	J	ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	54	J	ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-05 Date Collected: 07/05/19 10:30

Client ID: SB019 (3'-6') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	580		ug/kg	120	22.	1
Benzo(a)pyrene	540		ug/kg	160	48.	1
Benzo(b)fluoranthene	710		ug/kg	120	33.	1
Benzo(k)fluoranthene	260		ug/kg	120	32.	1
Chrysene	570		ug/kg	120	20.	1
Acenaphthylene	60	J	ug/kg	160	30.	1
Anthracene	140		ug/kg	120	38.	1
Benzo(ghi)perylene	330		ug/kg	160	23.	1
Fluorene	44	J	ug/kg	200	19.	1
Phenanthrene	500		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	96	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	360		ug/kg	160	28.	1
Pyrene	710		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	30	J	ug/kg	200	19.	1
2-Methylnaphthalene	54	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	430	74.	1
4-Nitrophenol	ND		ug/kg	280	80.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	95.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-05 Date Collected: 07/05/19 10:30

Client ID: SB019 (3'-6') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	67	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	51		10-136
4-Terphenyl-d14	51		18-120

Project Name: 355 EXTERIOR ST.
Lab Number: L1929439
Project Number: LST1802 TASK 07
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-07
Client ID: SB020 (0'-3')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 11:00
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/13/19 08:53
Analyst: CB
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 07/11/19 21:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	120	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	2100		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	220		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-07 Date Collected: 07/05/19 11:00

Client ID: SB020 (0'-3') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	1200		ug/kg	110	20.	1
Benzo(a)pyrene	1100		ug/kg	150	44.	1
Benzo(b)fluoranthene	1400		ug/kg	110	31.	1
Benzo(k)fluoranthene	450		ug/kg	110	29.	1
Chrysene	1200		ug/kg	110	19.	1
Acenaphthylene	190		ug/kg	150	28.	1
Anthracene	390		ug/kg	110	36.	1
Benzo(ghi)perylene	620		ug/kg	150	21.	1
Fluorene	150	J	ug/kg	180	18.	1
Phenanthrene	1600		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	160		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	660		ug/kg	150	25.	1
Pyrene	2000		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	140	J	ug/kg	180	17.	1
2-Methylnaphthalene	120	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	69.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-07 Date Collected: 07/05/19 11:00

Client ID: SB020 (0'-3') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	130	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	70		18-120

Project Name: 355 EXTERIOR ST.
Lab Number: L1929439
Project Number: LST1802 TASK 07
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-08
Client ID: SB021 (0'-3')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 11:45
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/15/19 16:09
Analyst: EK
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 07/11/19 21:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	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	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	270		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	31	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-08 Date Collected: 07/05/19 11:45

Client ID: SB021 (0'-3') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	180		ug/kg	110	20.	1
Benzo(a)pyrene	180		ug/kg	140	44.	1
Benzo(b)fluoranthene	250		ug/kg	110	30.	1
Benzo(k)fluoranthene	72	J	ug/kg	110	29.	1
Chrysene	190		ug/kg	110	19.	1
Acenaphthylene	42	J	ug/kg	140	28.	1
Anthracene	48	J	ug/kg	110	35.	1
Benzo(ghi)perylene	130	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	150		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	32	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	160		ug/kg	140	25.	1
Pyrene	290		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	39	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-08 Date Collected: 07/05/19 11:45

Client ID: SB021 (0'-3') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	48		10-136
4-Terphenyl-d14	59		18-120

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07
Lab Number: L1929439
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-09
Client ID: SB021 (3'-6')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 11:50
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/15/19 01:56
Analyst: RC
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 07/13/19 01:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1000		ug/kg	140	18.	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	31.	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	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	18000	E	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	780		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	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	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: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-09 Date Collected: 07/05/19 11:50

Client ID: SB021 (3'-6') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

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	10000	E	ug/kg	110	20.	1
Benzo(a)pyrene	8400	E	ug/kg	140	43.	1
Benzo(b)fluoranthene	9900	E	ug/kg	110	30.	1
Benzo(k)fluoranthene	3200		ug/kg	110	28.	1
Chrysene	9100	E	ug/kg	110	18.	1
Acenaphthylene	220		ug/kg	140	28.	1
Anthracene	3600		ug/kg	110	35.	1
Benzo(ghi)perylene	5600		ug/kg	140	21.	1
Fluorene	940		ug/kg	180	17.	1
Phenanthrene	12000	E	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	1200		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	5800		ug/kg	140	25.	1
Pyrene	19000	E	ug/kg	110	18.	1
Biphenyl	130	J	ug/kg	410	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	470		ug/kg	180	17.	1
2-Methylnaphthalene	780		ug/kg	210	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	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	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-09 Date Collected: 07/05/19 11:50

Client ID: SB021 (3'-6') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	310		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	112		25-120
Phenol-d6	117		10-120
Nitrobenzene-d5	**134**	Q	23-120
2-Fluorobiphenyl	114		30-120
2,4,6-Tribromophenol	108		10-136
4-Terphenyl-d14	93		18-120

Project Name: 355 EXTERIOR ST.
Lab Number: L1929439
Project Number: LST1802 TASK 07
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-09 D
Client ID: SB021 (3'-6')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 11:50
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/15/19 12:57
Analyst: EK
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 07/13/19 01:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	16000		ug/kg	530	100	5
Benzo(a)anthracene	9000		ug/kg	530	100	5
Benzo(a)pyrene	7200		ug/kg	710	220	5
Benzo(b)fluoranthene	9200		ug/kg	530	150	5
Chrysene	6900		ug/kg	530	93.	5
Phenanthrene	10000		ug/kg	530	110	5
Pyrene	16000		ug/kg	530	88.	5

Project Name: 355 EXTERIOR ST.
Lab Number: L1929439
Project Number: LST1802 TASK 07
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-10
Client ID: SB021 (6'-9')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 11:55
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/21/19 20:15
Analyst: RC
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 07/19/19 03:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	120		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-10 Date Collected: 07/05/19 11:55

Client ID: SB021 (6'-9') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	67	J	ug/kg	110	21.	1
Benzo(a)pyrene	62	J	ug/kg	150	45.	1
Benzo(b)fluoranthene	80	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	58	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	41	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	77	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	76	J	ug/kg	150	26.	1
Pyrene	120		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-10 Date Collected: 07/05/19 11:55

Client ID: SB021 (6'-9') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	67		18-120

Project Name: 355 EXTERIOR ST.
Lab Number: L1929439
Project Number: LST1802 TASK 07
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-11
Client ID: SB022 (0'-3')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 12:45
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/13/19 09:47
Analyst: CB
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 07/11/19 21:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	100	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	1700		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	96	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	43	J	ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-11 Date Collected: 07/05/19 12:45

Client ID: SB022 (0'-3') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	960		ug/kg	110	20.	1
Benzo(a)pyrene	870		ug/kg	150	45.	1
Benzo(b)fluoranthene	1100		ug/kg	110	31.	1
Benzo(k)fluoranthene	410		ug/kg	110	29.	1
Chrysene	950		ug/kg	110	19.	1
Acenaphthylene	110	J	ug/kg	150	28.	1
Anthracene	330		ug/kg	110	36.	1
Benzo(ghi)perylene	500		ug/kg	150	21.	1
Fluorene	93	J	ug/kg	180	18.	1
Phenanthrene	1100		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	120		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	520		ug/kg	150	25.	1
Pyrene	1600		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	56	J	ug/kg	180	17.	1
2-Methylnaphthalene	71	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	69.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-11 Date Collected: 07/05/19 12:45

Client ID: SB022 (0'-3') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	100	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	63		18-120

Project Name: 355 EXTERIOR ST.
Lab Number: L1929439
Project Number: LST1802 TASK 07
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-12
Client ID: SB023 (0'-3')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 13:50
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/13/19 04:50
Analyst: CB
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 07/11/19 21:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	34.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	52.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	78	J	ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	ND		ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-12 Date Collected: 07/05/19 13:50

Client ID: SB023 (0'-3') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	41.	1
Benzo(a)anthracene	43	J	ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	56	J	ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	45	J	ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	28	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	39	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	28	J	ug/kg	160	27.	1
Pyrene	70	J	ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	38.	1
3-Nitroaniline	ND		ug/kg	190	37.	1
4-Nitroaniline	ND		ug/kg	190	81.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-12 Date Collected: 07/05/19 13:50

Client ID: SB023 (0'-3') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	190	60.	1
Carbazole	ND		ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	72		18-120

Project Name: 355 EXTERIOR ST.
Lab Number: L1929439
Project Number: LST1802 TASK 07
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-13
Client ID: SB023 (3'-6')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 13:55
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/13/19 07:06
Analyst: CB
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 07/11/19 21:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	19	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	490		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	30	J	ug/kg	180	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	47.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-13 Date Collected: 07/05/19 13:55

Client ID: SB023 (3'-6') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	280		ug/kg	110	21.	1
Benzo(a)pyrene	240		ug/kg	150	45.	1
Benzo(b)fluoranthene	310		ug/kg	110	31.	1
Benzo(k)fluoranthene	98	J	ug/kg	110	30.	1
Chrysene	260		ug/kg	110	19.	1
Acenaphthylene	49	J	ug/kg	150	29.	1
Anthracene	65	J	ug/kg	110	36.	1
Benzo(ghi)perylene	170		ug/kg	150	22.	1
Fluorene	22	J	ug/kg	180	18.	1
Phenanthrene	310		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	40	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	170		ug/kg	150	26.	1
Pyrene	480		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	77.	1
Dibenzofuran	18	J	ug/kg	180	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-13 Date Collected: 07/05/19 13:55

Client ID: SB023 (3'-6') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	28	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	26		10-136
4-Terphenyl-d14	67		18-120

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07
Lab Number: L1929439
Report Date: 08/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/13/19 01:37
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/11/19 19:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-05,07-08,11-13 Batch: WG1258849-1					
Acenaphthene	ND		ug/kg	130	17.
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	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
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	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.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07
Lab Number: L1929439
Report Date: 08/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/13/19 01:37
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/11/19 19:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-05,07-08,11-13 Batch: WG1258849-1					
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	27.
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	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	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
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.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07
Lab Number: L1929439
Report Date: 08/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/13/19 01:37
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/11/19 19:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-05,07-08,11-13 Batch: WG1258849-1					
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	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	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.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	88		18-120

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/14/19 16:38
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/13/19 01:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1259428-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.
Hexachlorobenzene	ND		ug/kg	100	19.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	170	16.
1,2-Dichlorobenzene	ND		ug/kg	170	30.
1,3-Dichlorobenzene	ND		ug/kg	170	28.
1,4-Dichlorobenzene	ND		ug/kg	170	29.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	170	33.
2,6-Dinitrotoluene	ND		ug/kg	170	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachlorocyclopentadiene	ND		ug/kg	480	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	25.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	32.
Di-n-octylphthalate	ND		ug/kg	170	56.
Diethyl phthalate	ND		ug/kg	170	15.

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/14/19 16:38
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/13/19 01:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1259428-1					
Dimethyl phthalate	ND		ug/kg	170	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	170	30.
2-Nitroaniline	ND		ug/kg	170	32.
3-Nitroaniline	ND		ug/kg	170	31.
4-Nitroaniline	ND		ug/kg	170	69.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.
Acetophenone	ND		ug/kg	170	20.
2,4,6-Trichlorophenol	ND		ug/kg	100	32.
p-Chloro-m-cresol	ND		ug/kg	170	25.
2-Chlorophenol	ND		ug/kg	170	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	170	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/14/19 16:38
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/13/19 01:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1259428-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	170	51.
Carbazole	ND		ug/kg	170	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	98		25-120
Phenol-d6	97		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	100		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	109		18-120

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/20/19 01:10
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 07/19/19 03:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1261865-1					
Acenaphthene	ND		ug/kg	130	17.
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.
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	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/20/19 01:10
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 07/19/19 03:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1261865-1					
Dimethyl phthalate	ND		ug/kg	160	35.
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.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/20/19 01:10
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 07/19/19 03:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1261865-1					
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	540	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	97		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-05,07-08,11-13 Batch: WG1258849-2 WG1258849-3								
Acenaphthene	80		74		31-137	8		50
1,2,4-Trichlorobenzene	77		70		38-107	10		50
Hexachlorobenzene	74		67		40-140	10		50
Bis(2-chloroethyl)ether	83		75		40-140	10		50
2-Chloronaphthalene	81		73		40-140	10		50
1,2-Dichlorobenzene	75		68		40-140	10		50
1,3-Dichlorobenzene	72		66		40-140	9		50
1,4-Dichlorobenzene	73		68		28-104	7		50
3,3'-Dichlorobenzidine	60		54		40-140	11		50
2,4-Dinitrotoluene	92		84		40-132	9		50
2,6-Dinitrotoluene	93		83		40-140	11		50
Fluoranthene	82		74		40-140	10		50
4-Chlorophenyl phenyl ether	78		71		40-140	9		50
4-Bromophenyl phenyl ether	76		67		40-140	13		50
Bis(2-chloroisopropyl)ether	80		74		40-140	8		50
Bis(2-chloroethoxy)methane	89		82		40-117	8		50
Hexachlorobutadiene	73		65		40-140	12		50
Hexachlorocyclopentadiene	81		74		40-140	9		50
Hexachloroethane	78		72		40-140	8		50
Isophorone	90		82		40-140	9		50
Naphthalene	79		72		40-140	9		50
Nitrobenzene	90		81		40-140	11		50
NDPA/DPA	83		75		36-157	10		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-05,07-08,11-13 Batch: WG1258849-2 WG1258849-3								
n-Nitrosodi-n-propylamine	96		87		32-121	10		50
Bis(2-ethylhexyl)phthalate	96		86		40-140	11		50
Butyl benzyl phthalate	99		88		40-140	12		50
Di-n-butylphthalate	91		82		40-140	10		50
Di-n-octylphthalate	100		89		40-140	12		50
Diethyl phthalate	85		76		40-140	11		50
Dimethyl phthalate	85		77		40-140	10		50
Benzo(a)anthracene	85		77		40-140	10		50
Benzo(a)pyrene	76		69		40-140	10		50
Benzo(b)fluoranthene	79		72		40-140	9		50
Benzo(k)fluoranthene	83		74		40-140	11		50
Chrysene	80		72		40-140	11		50
Acenaphthylene	84		76		40-140	10		50
Anthracene	84		76		40-140	10		50
Benzo(ghi)perylene	81		75		40-140	8		50
Fluorene	82		74		40-140	10		50
Phenanthrene	80		72		40-140	11		50
Dibenzo(a,h)anthracene	87		80		40-140	8		50
Indeno(1,2,3-cd)pyrene	74		69		40-140	7		50
Pyrene	82		73		35-142	12		50
Biphenyl	88		79		54-104	11		50
4-Chloroaniline	67		61		40-140	9		50
2-Nitroaniline	90		81		47-134	11		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-05,07-08,11-13 Batch: WG1258849-2 WG1258849-3								
3-Nitroaniline	61		59		26-129	3		50
4-Nitroaniline	79		70		41-125	12		50
Dibenzofuran	80		72		40-140	11		50
2-Methylnaphthalene	82		74		40-140	10		50
1,2,4,5-Tetrachlorobenzene	78		70		40-117	11		50
Acetophenone	87		80		14-144	8		50
2,4,6-Trichlorophenol	84		76		30-130	10		50
p-Chloro-m-cresol	89		80		26-103	11		50
2-Chlorophenol	82		75		25-102	9		50
2,4-Dichlorophenol	86		78		30-130	10		50
2,4-Dimethylphenol	89		81		30-130	9		50
2-Nitrophenol	90		83		30-130	8		50
4-Nitrophenol	101		91		11-114	10		50
2,4-Dinitrophenol	99		90		4-130	10		50
4,6-Dinitro-o-cresol	102		92		10-130	10		50
Pentachlorophenol	92		84		17-109	9		50
Phenol	**94**	Q	86		26-90	9		50
2-Methylphenol	88		80		30-130.	10		50
3-Methylphenol/4-Methylphenol	85		78		30-130	9		50
2,4,5-Trichlorophenol	85		76		30-130	11		50
Benzoic Acid	77		69		10-110	11		50
Benzyl Alcohol	90		82		40-140	9		50
Carbazole	82		74		54-128	10		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-05,07-08,11-13 Batch: WG1258849-2 WG1258849-3								
1,4-Dioxane	66		62		40-140	6		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	88		78		25-120
Phenol-d6	93		83		10-120
Nitrobenzene-d5	102		90		23-120
2-Fluorobiphenyl	89		79		30-120
2,4,6-Tribromophenol	84		71		10-136
4-Terphenyl-d14	91		80		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

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: WG1259428-2 WG1259428-3								
Acenaphthene	58		69		31-137	17		50
1,2,4-Trichlorobenzene	55		64		38-107	15		50
Hexachlorobenzene	51		62		40-140	19		50
Bis(2-chloroethyl)ether	59		69		40-140	16		50
2-Chloronaphthalene	57		68		40-140	18		50
1,2-Dichlorobenzene	53		61		40-140	14		50
1,3-Dichlorobenzene	51		59		40-140	15		50
1,4-Dichlorobenzene	52		60		28-104	14		50
3,3'-Dichlorobenzidine	48		57		40-140	17		50
2,4-Dinitrotoluene	64		77		40-132	18		50
2,6-Dinitrotoluene	63		76		40-140	19		50
Fluoranthene	58		69		40-140	17		50
4-Chlorophenyl phenyl ether	54		65		40-140	18		50
4-Bromophenyl phenyl ether	52		63		40-140	19		50
Bis(2-chloroisopropyl)ether	58		67		40-140	14		50
Bis(2-chloroethoxy)methane	64		74		40-117	14		50
Hexachlorobutadiene	50		60		40-140	18		50
Hexachlorocyclopentadiene	49		59		40-140	19		50
Hexachloroethane	55		63		40-140	14		50
Isophorone	66		76		40-140	14		50
Naphthalene	56		67		40-140	18		50
Nitrobenzene	65		75		40-140	14		50
NDPA/DPA	59		70		36-157	17		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

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: WG1259428-2 WG1259428-3								
n-Nitrosodi-n-propylamine	70		81		32-121	15		50
Bis(2-ethylhexyl)phthalate	66		78		40-140	17		50
Butyl benzyl phthalate	68		81		40-140	17		50
Di-n-butylphthalate	64		76		40-140	17		50
Di-n-octylphthalate	71		85		40-140	18		50
Diethyl phthalate	58		70		40-140	19		50
Dimethyl phthalate	57		69		40-140	19		50
Benzo(a)anthracene	61		74		40-140	19		50
Benzo(a)pyrene	52		64		40-140	21		50
Benzo(b)fluoranthene	57		67		40-140	16		50
Benzo(k)fluoranthene	55		68		40-140	21		50
Chrysene	55		67		40-140	20		50
Acenaphthylene	59		71		40-140	18		50
Anthracene	62		73		40-140	16		50
Benzo(ghi)perylene	56		68		40-140	19		50
Fluorene	58		70		40-140	19		50
Phenanthrene	58		69		40-140	17		50
Dibenzo(a,h)anthracene	60		73		40-140	20		50
Indeno(1,2,3-cd)pyrene	55		66		40-140	18		50
Pyrene	57		69		35-142	19		50
Biphenyl	62		74		54-104	18		50
4-Chloroaniline	55		61		40-140	10		50
2-Nitroaniline	66		79		47-134	18		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

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: WG1259428-2 WG1259428-3								
3-Nitroaniline	54		63		26-129	15		50
4-Nitroaniline	58		70		41-125	19		50
Dibenzofuran	57		68		40-140	18		50
2-Methylnaphthalene	58		70		40-140	19		50
1,2,4,5-Tetrachlorobenzene	55		66		40-117	18		50
Acetophenone	63		73		14-144	15		50
2,4,6-Trichlorophenol	60		73		30-130	20		50
p-Chloro-m-cresol	63		75		26-103	17		50
2-Chlorophenol	60		69		25-102	14		50
2,4-Dichlorophenol	62		71		30-130	14		50
2,4-Dimethylphenol	65		76		30-130	16		50
2-Nitrophenol	65		76		30-130	16		50
4-Nitrophenol	70		83		11-114	17		50
2,4-Dinitrophenol	31		42		4-130	30		50
4,6-Dinitro-o-cresol	33		44		10-130	29		50
Pentachlorophenol	67		79		17-109	16		50
Phenol	64		75		26-90	16		50
2-Methylphenol	65		75		30-130.	14		50
3-Methylphenol/4-Methylphenol	63		74		30-130	16		50
2,4,5-Trichlorophenol	60		72		30-130	18		50
Benzoic Acid	55		67		10-110	20		50
Benzyl Alcohol	70		79		40-140	12		50
Carbazole	59		71		54-128	18		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

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: WG1259428-2 WG1259428-3								
1,4-Dioxane	45		50		40-140	11		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	58		66		25-120
Phenol-d6	62		71		10-120
Nitrobenzene-d5	69		78		23-120
2-Fluorobiphenyl	57		67		30-120
2,4,6-Tribromophenol	50		60		10-136
4-Terphenyl-d14	55		65		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

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: WG1261865-2 WG1261865-3								
Acenaphthene	84		81		31-137	4		50
1,2,4-Trichlorobenzene	73		76		38-107	4		50
Hexachlorobenzene	76		74		40-140	3		50
Bis(2-chloroethyl)ether	77		79		40-140	3		50
2-Chloronaphthalene	81		82		40-140	1		50
1,2-Dichlorobenzene	73		74		40-140	1		50
1,3-Dichlorobenzene	73		76		40-140	4		50
1,4-Dichlorobenzene	72		73		28-104	1		50
3,3'-Dichlorobenzidine	59		58		40-140	2		50
2,4-Dinitrotoluene	88		85		40-132	3		50
2,6-Dinitrotoluene	85		87		40-140	2		50
Fluoranthene	85		86		40-140	1		50
4-Chlorophenyl phenyl ether	83		80		40-140	4		50
4-Bromophenyl phenyl ether	81		81		40-140	0		50
Bis(2-chloroisopropyl)ether	79		81		40-140	3		50
Bis(2-chloroethoxy)methane	80		84		40-117	5		50
Hexachlorobutadiene	72		71		40-140	1		50
Hexachlorocyclopentadiene	79		80		40-140	1		50
Hexachloroethane	73		74		40-140	1		50
Isophorone	83		84		40-140	1		50
Naphthalene	79		80		40-140	1		50
Nitrobenzene	81		83		40-140	2		50
NDPA/DPA	87		84		36-157	4		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

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: WG1261865-2 WG1261865-3								
n-Nitrosodi-n-propylamine	86		87		32-121	1		50
Bis(2-ethylhexyl)phthalate	102		103		40-140	1		50
Butyl benzyl phthalate	90		91		40-140	1		50
Di-n-butylphthalate	93		93		40-140	0		50
Di-n-octylphthalate	100		101		40-140	1		50
Diethyl phthalate	87		86		40-140	1		50
Dimethyl phthalate	81		82		40-140	1		50
Benzo(a)anthracene	88		89		40-140	1		50
Benzo(a)pyrene	81		82		40-140	1		50
Benzo(b)fluoranthene	84		85		40-140	1		50
Benzo(k)fluoranthene	86		85		40-140	1		50
Chrysene	86		87		40-140	1		50
Acenaphthylene	84		86		40-140	2		50
Anthracene	86		88		40-140	2		50
Benzo(ghi)perylene	85		84		40-140	1		50
Fluorene	85		85		40-140	0		50
Phenanthrene	83		84		40-140	1		50
Dibenzo(a,h)anthracene	85		86		40-140	1		50
Indeno(1,2,3-cd)pyrene	84		83		40-140	1		50
Pyrene	85		86		35-142	1		50
Biphenyl	85		87		54-104	2		50
4-Chloroaniline	66		65		40-140	2		50
2-Nitroaniline	88		90		47-134	2		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

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: WG1261865-2 WG1261865-3								
3-Nitroaniline	73		70		26-129	4		50
4-Nitroaniline	93		90		41-125	3		50
Dibenzofuran	83		83		40-140	0		50
2-Methylnaphthalene	83		84		40-140	1		50
1,2,4,5-Tetrachlorobenzene	79		79		40-117	0		50
Acetophenone	88		89		14-144	1		50
2,4,6-Trichlorophenol	85		85		30-130	0		50
p-Chloro-m-cresol	92		93		26-103	1		50
2-Chlorophenol	82		85		25-102	4		50
2,4-Dichlorophenol	88		89		30-130	1		50
2,4-Dimethylphenol	89		90		30-130	1		50
2-Nitrophenol	82		83		30-130	1		50
4-Nitrophenol	105		106		11-114	1		50
2,4-Dinitrophenol	78		80		4-130	3		50
4,6-Dinitro-o-cresol	93		94		10-130	1		50
Pentachlorophenol	81		84		17-109	4		50
Phenol	86		89		26-90	3		50
2-Methylphenol	89		89		30-130.	0		50
3-Methylphenol/4-Methylphenol	89		90		30-130	1		50
2,4,5-Trichlorophenol	88		90		30-130	2		50
Benzoic Acid	78		79		10-110	1		50
Benzyl Alcohol	85		88		40-140	3		50
Carbazole	89		89		54-128	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 355 EXTERIOR ST.

Project Number: LST1802 TASK 07

Lab Number: L1929439

Report Date: 08/05/19

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: WG1261865-2 WG1261865-3								
1,4-Dioxane	55		54		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	80		83		25-120
Phenol-d6	83		85		10-120
Nitrobenzene-d5	80		84		23-120
2-Fluorobiphenyl	78		80		30-120
2,4,6-Tribromophenol	75		74		10-136
4-Terphenyl-d14	82		82		18-120

PCBS

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07
Lab Number: L1929439
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-01
Client ID: SB018 (0'-3')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 09:30
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/13/19 00:12
Analyst: WR
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 07/11/19 21:52
Cleanup Method: EPA 3665A
Cleanup Date: 07/12/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/12/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.7	3.08	1	A
Aroclor 1221	ND		ug/kg	34.7	3.48	1	A
Aroclor 1232	ND		ug/kg	34.7	7.37	1	A
Aroclor 1242	ND		ug/kg	34.7	4.68	1	A
Aroclor 1248	ND		ug/kg	34.7	5.21	1	A
Aroclor 1254	ND		ug/kg	34.7	3.80	1	A
Aroclor 1260	ND		ug/kg	34.7	6.42	1	A
Aroclor 1262	ND		ug/kg	34.7	4.41	1	A
Aroclor 1268	4.40	J	ug/kg	34.7	3.60	1	A
PCBs, Total	4.40	J	ug/kg	34.7	3.08	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	48		30-150	B
Decachlorobiphenyl	48		30-150	B

Project Name: 355 EXTERIOR ST.
Lab Number: L1929439
Project Number: LST1802 TASK 07
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-07
Client ID: SB020 (0'-3')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 11:00
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/13/19 00:28
Analyst: WR
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 07/11/19 21:52
Cleanup Method: EPA 3665A
Cleanup Date: 07/12/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/12/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.9	3.18	1	A
Aroclor 1221	ND		ug/kg	35.9	3.59	1	A
Aroclor 1232	ND		ug/kg	35.9	7.60	1	A
Aroclor 1242	ND		ug/kg	35.9	4.84	1	A
Aroclor 1248	ND		ug/kg	35.9	5.38	1	A
Aroclor 1254	58.5	P	ug/kg	35.9	3.92	1	A
Aroclor 1260	16.1	J	ug/kg	35.9	6.63	1	B
Aroclor 1262	ND		ug/kg	35.9	4.56	1	A
Aroclor 1268	7.25	J	ug/kg	35.9	3.72	1	A
PCBs, Total	81.9	J	ug/kg	35.9	3.18	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	46		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: 355 EXTERIOR ST.
Lab Number: L1929439
Project Number: LST1802 TASK 07
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-11
Client ID: SB022 (0'-3')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 12:45
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/13/19 00:40
Analyst: WR
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 07/11/19 21:52
Cleanup Method: EPA 3665A
Cleanup Date: 07/12/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/12/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.8	3.18	1	A
Aroclor 1221	ND		ug/kg	35.8	3.59	1	A
Aroclor 1232	ND		ug/kg	35.8	7.60	1	A
Aroclor 1242	ND		ug/kg	35.8	4.83	1	A
Aroclor 1248	ND		ug/kg	35.8	5.38	1	A
Aroclor 1254	40.8	P	ug/kg	35.8	3.92	1	A
Aroclor 1260	19.4	J	ug/kg	35.8	6.62	1	A
Aroclor 1262	ND		ug/kg	35.8	4.55	1	A
Aroclor 1268	6.98	J	ug/kg	35.8	3.71	1	A
PCBs, Total	67.2	J	ug/kg	35.8	3.18	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/12/19 01:22
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 07/11/19 10:09
Cleanup Method: EPA 3665A
Cleanup Date: 07/11/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/12/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,07,11 Batch: WG1258585-1						
Aroclor 1016	ND		ug/kg	31.9	2.84	A
Aroclor 1221	ND		ug/kg	31.9	3.20	A
Aroclor 1232	ND		ug/kg	31.9	6.77	A
Aroclor 1242	ND		ug/kg	31.9	4.30	A
Aroclor 1248	ND		ug/kg	31.9	4.79	A
Aroclor 1254	ND		ug/kg	31.9	3.49	A
Aroclor 1260	ND		ug/kg	31.9	5.90	A
Aroclor 1262	ND		ug/kg	31.9	4.05	A
Aroclor 1268	ND		ug/kg	31.9	3.31	A
PCBs, Total	ND		ug/kg	31.9	2.84	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	68		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,07,11 Batch: WG1258585-2 WG1258585-3									
Aroclor 1016	75		72		40-140	4		50	A
Aroclor 1260	66		64		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		72		30-150	A
Decachlorobiphenyl	74		71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		71		30-150	B
Decachlorobiphenyl	78		75		30-150	B

PESTICIDES

Project Name: 355 EXTERIOR ST.
Lab Number: L1929439
Project Number: LST1802 TASK 07
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-01
Client ID: SB018 (0'-3')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 09:30
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/13/19 12:39
Analyst: BM
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 07/11/19 21:56
Cleanup Method: EPA 3620B
Cleanup Date: 07/12/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.326	1	A
Lindane	ND		ug/kg	0.693	0.310	1	A
Alpha-BHC	ND		ug/kg	0.693	0.197	1	A
Beta-BHC	ND		ug/kg	1.66	0.631	1	A
Heptachlor	ND		ug/kg	0.832	0.373	1	A
Aldrin	ND		ug/kg	1.66	0.586	1	A
Heptachlor epoxide	ND		ug/kg	3.12	0.936	1	A
Endrin	ND		ug/kg	0.693	0.284	1	A
Endrin aldehyde	ND		ug/kg	2.08	0.728	1	A
Endrin ketone	ND		ug/kg	1.66	0.428	1	A
Dieldrin	1.77		ug/kg	1.04	0.520	1	B
4,4'-DDE	ND		ug/kg	1.66	0.385	1	A
4,4'-DDD	1.95		ug/kg	1.66	0.593	1	B
4,4'-DDT	3.05	J	ug/kg	3.12	1.34	1	B
Endosulfan I	ND		ug/kg	1.66	0.393	1	A
Endosulfan II	ND		ug/kg	1.66	0.556	1	A
Endosulfan sulfate	ND		ug/kg	0.693	0.330	1	A
Methoxychlor	ND		ug/kg	3.12	0.970	1	A
Toxaphene	ND		ug/kg	31.2	8.73	1	A
cis-Chlordane	0.699	J	ug/kg	2.08	0.579	1	A
trans-Chlordane	ND	IP	ug/kg	2.08	0.549	1	A
Chlordane	ND		ug/kg	13.5	5.51	1	A

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-01 Date Collected: 07/05/19 09:30

Client ID: SB018 (0'-3') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	80		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	79		30-150	A

Project Name: 355 EXTERIOR ST.
Lab Number: L1929439
Project Number: LST1802 TASK 07
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-07
Client ID: SB020 (0'-3')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 11:00
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/16/19 19:23
Analyst: KEG
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 07/11/19 21:56
Cleanup Method: EPA 3620B
Cleanup Date: 07/12/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.77	0.347	1	A
Lindane	ND		ug/kg	0.738	0.330	1	A
Alpha-BHC	ND		ug/kg	0.738	0.210	1	A
Beta-BHC	ND		ug/kg	1.77	0.671	1	A
Heptachlor	ND		ug/kg	0.885	0.397	1	A
Aldrin	ND		ug/kg	1.77	0.623	1	A
Heptachlor epoxide	ND		ug/kg	3.32	0.996	1	A
Endrin	ND		ug/kg	0.738	0.302	1	A
Endrin aldehyde	ND		ug/kg	2.21	0.774	1	A
Endrin ketone	ND		ug/kg	1.77	0.456	1	A
Dieldrin	ND		ug/kg	1.11	0.553	1	A
4,4'-DDE	3.18	IP	ug/kg	1.77	0.409	1	B
4,4'-DDD	4.78		ug/kg	1.77	0.631	1	A
4,4'-DDT	ND		ug/kg	3.32	1.42	1	A
Endosulfan I	ND		ug/kg	1.77	0.418	1	A
Endosulfan II	ND		ug/kg	1.77	0.592	1	A
Endosulfan sulfate	ND		ug/kg	0.738	0.351	1	A
Methoxychlor	ND		ug/kg	3.32	1.03	1	A
Toxaphene	ND		ug/kg	33.2	9.29	1	A
cis-Chlordane	1.08	J	ug/kg	2.21	0.617	1	B
trans-Chlordane	ND		ug/kg	2.21	0.584	1	A
Chlordane	ND		ug/kg	14.4	5.86	1	A

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-07 Date Collected: 07/05/19 11:00

Client ID: SB020 (0'-3') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		30-150	B
Decachlorobiphenyl	**161**	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	100		30-150	A
Decachlorobiphenyl	102		30-150	A

Project Name: 355 EXTERIOR ST.
Lab Number: L1929439
Project Number: LST1802 TASK 07
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-11
Client ID: SB022 (0'-3')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 12:45
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/13/19 13:05
Analyst: BM
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 07/11/19 21:56
Cleanup Method: EPA 3620B
Cleanup Date: 07/12/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	0.331	1	A
Lindane	ND		ug/kg	0.705	0.315	1	A
Alpha-BHC	ND		ug/kg	0.705	0.200	1	A
Beta-BHC	ND		ug/kg	1.69	0.642	1	A
Heptachlor	ND		ug/kg	0.846	0.379	1	A
Aldrin	ND		ug/kg	1.69	0.596	1	A
Heptachlor epoxide	ND		ug/kg	3.17	0.952	1	A
Endrin	ND		ug/kg	0.705	0.289	1	A
Endrin aldehyde	ND		ug/kg	2.12	0.740	1	A
Endrin ketone	ND		ug/kg	1.69	0.436	1	A
Dieldrin	1.72	IP	ug/kg	1.06	0.529	1	A
4,4'-DDE	2.28	P	ug/kg	1.69	0.391	1	A
4,4'-DDD	2.31		ug/kg	1.69	0.604	1	B
4,4'-DDT	7.40	IP	ug/kg	3.17	1.36	1	A
Endosulfan I	ND		ug/kg	1.69	0.400	1	A
Endosulfan II	0.568	JIP	ug/kg	1.69	0.566	1	A
Endosulfan sulfate	ND		ug/kg	0.705	0.336	1	A
Methoxychlor	ND		ug/kg	3.17	0.987	1	A
Toxaphene	ND		ug/kg	31.7	8.88	1	A
cis-Chlordane	ND		ug/kg	2.12	0.590	1	A
trans-Chlordane	ND		ug/kg	2.12	0.558	1	A
Chlordane	ND		ug/kg	13.8	5.61	1	A

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-11 Date Collected: 07/05/19 12:45

Client ID: SB022 (0'-3') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	73		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	76		30-150	A

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/11/19 15:13
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 07/11/19 09:05
Cleanup Method: EPA 3620B
Cleanup Date: 07/11/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,11 Batch: WG1258538-1						
Delta-BHC	ND		ug/kg	1.55	0.304	A
Lindane	ND		ug/kg	0.646	0.289	A
Alpha-BHC	ND		ug/kg	0.646	0.184	A
Beta-BHC	ND		ug/kg	1.55	0.588	A
Heptachlor	ND		ug/kg	0.776	0.348	A
Aldrin	ND		ug/kg	1.55	0.546	A
Heptachlor epoxide	ND		ug/kg	2.91	0.873	A
Endrin	ND		ug/kg	0.646	0.265	A
Endrin aldehyde	ND		ug/kg	1.94	0.679	A
Endrin ketone	ND		ug/kg	1.55	0.399	A
Dieldrin	ND		ug/kg	0.970	0.485	A
4,4'-DDE	ND		ug/kg	1.55	0.359	A
4,4'-DDD	ND		ug/kg	1.55	0.553	A
4,4'-DDT	ND		ug/kg	2.91	1.25	A
Endosulfan I	ND		ug/kg	1.55	0.366	A
Endosulfan II	ND		ug/kg	1.55	0.518	A
Endosulfan sulfate	ND		ug/kg	0.646	0.308	A
Methoxychlor	ND		ug/kg	2.91	0.905	A
Toxaphene	ND		ug/kg	29.1	8.14	A
cis-Chlordane	ND		ug/kg	1.94	0.540	A
trans-Chlordane	ND		ug/kg	1.94	0.512	A
Chlordane	ND		ug/kg	12.6	5.14	A

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/11/19 15:13
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 07/11/19 09:05
Cleanup Method: EPA 3620B
Cleanup Date: 07/11/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,11 Batch: WG1258538-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	52		30-150	B
2,4,5,6-Tetrachloro-m-xylene	49		30-150	A
Decachlorobiphenyl	57		30-150	A

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/16/19 18:07
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 07/11/19 09:05
Cleanup Method: EPA 3620B
Cleanup Date: 07/11/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07 Batch: WG1260633-1						
Delta-BHC	ND		ug/kg	1.55	0.304	A
Lindane	ND		ug/kg	0.646	0.289	A
Alpha-BHC	ND		ug/kg	0.646	0.184	A
Beta-BHC	ND		ug/kg	1.55	0.588	A
Heptachlor	ND		ug/kg	0.776	0.348	A
Aldrin	ND		ug/kg	1.55	0.546	A
Heptachlor epoxide	ND		ug/kg	2.91	0.873	A
Endrin	ND		ug/kg	0.646	0.265	A
Endrin aldehyde	ND		ug/kg	1.94	0.679	A
Endrin ketone	ND		ug/kg	1.55	0.399	A
Dieldrin	ND		ug/kg	0.970	0.485	A
4,4'-DDE	ND		ug/kg	1.55	0.359	A
4,4'-DDD	ND		ug/kg	1.55	0.553	A
4,4'-DDT	ND		ug/kg	2.91	1.25	A
Endosulfan I	ND		ug/kg	1.55	0.366	A
Endosulfan II	ND		ug/kg	1.55	0.518	A
Endosulfan sulfate	ND		ug/kg	0.646	0.308	A
Methoxychlor	ND		ug/kg	2.91	0.905	A
Toxaphene	ND		ug/kg	29.1	8.14	A
cis-Chlordane	ND		ug/kg	1.94	0.540	A
trans-Chlordane	ND		ug/kg	1.94	0.512	A
Chlordane	ND		ug/kg	12.6	5.14	A

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/16/19 18:07
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 07/11/19 09:05
Cleanup Method: EPA 3620B
Cleanup Date: 07/11/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07 Batch: WG1260633-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	66		30-150	B
2,4,5,6-Tetrachloro-m-xylene	47		30-150	A
Decachlorobiphenyl	44		30-150	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,11 Batch: WG1258538-2 WG1258538-3									
Delta-BHC	74		85		30-150	14		30	A
Lindane	74		84		30-150	13		30	A
Alpha-BHC	78		89		30-150	13		30	A
Beta-BHC	66		75		30-150	13		30	A
Heptachlor	65		75		30-150	14		30	A
Aldrin	73		83		30-150	13		30	A
Heptachlor epoxide	74		84		30-150	13		30	A
Endrin	76		88		30-150	15		30	A
Endrin aldehyde	50		57		30-150	13		30	A
Endrin ketone	54		64		30-150	17		30	A
Dieldrin	73		85		30-150	15		30	A
4,4'-DDE	72		81		30-150	12		30	A
4,4'-DDD	63		75		30-150	17		30	A
4,4'-DDT	65		75		30-150	14		30	A
Endosulfan I	65		75		30-150	14		30	A
Endosulfan II	65		74		30-150	13		30	A
Endosulfan sulfate	44		48		30-150	9		30	A
Methoxychlor	56		65		30-150	15		30	A
cis-Chlordane	66		73		30-150	10		30	A
trans-Chlordane	65		74		30-150	13		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,11 Batch: WG1258538-2 WG1258538-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		83		30-150	B
Decachlorobiphenyl	77		89		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		82		30-150	A
Decachlorobiphenyl	81		95		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 355 EXTERIOR ST.

Project Number: LST1802 TASK 07

Lab Number: L1929439

Report Date: 08/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07 Batch: WG1260633-2 WG1260633-3									
Delta-BHC	73		90		30-150	21		30	A
Lindane	77		94		30-150	20		30	A
Alpha-BHC	80		93		30-150	15		30	A
Beta-BHC	75		88		30-150	16		30	A
Heptachlor	69		80		30-150	15		30	A
Aldrin	69		82		30-150	17		30	A
Heptachlor epoxide	36		84		30-150	**80**	Q	30	A
Endrin	73		87		30-150	18		30	A
Endrin aldehyde	49		58		30-150	17		30	A
Endrin ketone	55		70		30-150	24		30	A
Dieldrin	71		87		30-150	20		30	A
4,4'-DDE	66		83		30-150	23		30	A
4,4'-DDD	71		87		30-150	20		30	A
4,4'-DDT	66		84		30-150	24		30	A
Endosulfan I	62		76		30-150	20		30	A
Endosulfan II	61		80		30-150	27		30	A
Endosulfan sulfate	30		52		30-150	**54**	Q	30	A
Methoxychlor	56		71		30-150	24		30	A
cis-Chlordane	66		78		30-150	17		30	A
trans-Chlordane	70		80		30-150	13		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07 Batch: WG1260633-2 WG1260633-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		89		30-150	B
Decachlorobiphenyl	105		104		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		84		30-150	A
Decachlorobiphenyl	69		75		30-150	A

METALS

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-01 Date Collected: 07/05/19 09:30

Client ID: SB018 (0'-3') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10700		mg/kg	8.47	2.29	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.23	0.322	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC
Arsenic, Total	1.77		mg/kg	0.847	0.176	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC
Barium, Total	86.7		mg/kg	0.847	0.147	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC
Beryllium, Total	0.279	J	mg/kg	0.423	0.028	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.847	0.083	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC
Calcium, Total	1920		mg/kg	8.47	2.96	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC
Chromium, Total	24.3		mg/kg	0.847	0.081	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC
Cobalt, Total	9.65		mg/kg	1.69	0.140	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC
Copper, Total	28.9		mg/kg	0.847	0.218	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC
Iron, Total	19200		mg/kg	4.23	0.765	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC
Lead, Total	23.9		mg/kg	4.23	0.227	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC
Magnesium, Total	3580		mg/kg	8.47	1.30	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC
Manganese, Total	191		mg/kg	0.847	0.135	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC
Mercury, Total	0.078		mg/kg	0.067	0.044	1	07/11/19 07:30	07/11/19 12:12	EPA 7471B	1,7471B	GD
Nickel, Total	13.5		mg/kg	2.12	0.205	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC
Potassium, Total	4310		mg/kg	212	12.2	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.69	0.218	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.847	0.240	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC
Sodium, Total	228		mg/kg	169	2.67	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.69	0.267	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC
Vanadium, Total	34.8		mg/kg	0.847	0.172	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC
Zinc, Total	65.0		mg/kg	4.23	0.248	2	07/11/19 21:54	07/12/19 23:02	EPA 3050B	1,6010D	LC

Project Name: 355 EXTERIOR ST.
Lab Number: L1929439
Project Number: LST1802 TASK 07
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-02
Client ID: SB018 (3'-6')
Sample Location: 355 EXTERIOR ST., BRONX, NY
Date Collected: 07/05/19 09:35
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4880		mg/kg	8.88	2.40	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB
Antimony, Total	0.835	J	mg/kg	4.44	0.338	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB
Arsenic, Total	5.94		mg/kg	0.888	0.185	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB
Barium, Total	83.4		mg/kg	0.888	0.155	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB
Beryllium, Total	0.231	J	mg/kg	0.444	0.029	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB
Cadmium, Total	0.240	J	mg/kg	0.888	0.087	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB
Calcium, Total	14500		mg/kg	8.88	3.11	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB
Chromium, Total	13.4		mg/kg	0.888	0.085	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB
Cobalt, Total	5.81		mg/kg	1.78	0.148	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB
Copper, Total	44.6		mg/kg	0.888	0.229	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB
Iron, Total	12200		mg/kg	4.44	0.802	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB
Lead, Total	190		mg/kg	4.44	0.238	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB
Magnesium, Total	6740		mg/kg	8.88	1.37	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB
Manganese, Total	209		mg/kg	0.888	0.141	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB
Mercury, Total	0.530		mg/kg	0.070	0.046	1	07/17/19 05:20	07/17/19 11:07	EPA 7471B	1,7471B	GD
Nickel, Total	13.1		mg/kg	2.22	0.215	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB
Potassium, Total	1040		mg/kg	222	12.8	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB
Selenium, Total	0.640	J	mg/kg	1.78	0.229	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.888	0.251	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB
Sodium, Total	201		mg/kg	178	2.80	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.78	0.280	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB
Vanadium, Total	17.4		mg/kg	0.888	0.180	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB
Zinc, Total	160		mg/kg	4.44	0.260	2	07/16/19 21:55	07/18/19 21:58	EPA 3050B	1,6010D	AB

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-04 Date Collected: 07/05/19 10:25

Client ID: SB019 (0'-3') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10700		mg/kg	8.72	2.35	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB
Antimony, Total	1.46	J	mg/kg	4.36	0.331	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB
Arsenic, Total	4.92		mg/kg	0.872	0.181	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB
Barium, Total	185		mg/kg	0.872	0.152	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB
Beryllium, Total	0.410	J	mg/kg	0.436	0.029	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB
Cadmium, Total	0.837	J	mg/kg	0.872	0.085	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB
Calcium, Total	6400		mg/kg	8.72	3.05	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB
Chromium, Total	24.9		mg/kg	0.872	0.084	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB
Cobalt, Total	9.68		mg/kg	1.74	0.145	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB
Copper, Total	81.7		mg/kg	0.872	0.225	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB
Iron, Total	19800		mg/kg	4.36	0.787	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB
Lead, Total	182		mg/kg	4.36	0.234	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB
Magnesium, Total	3710		mg/kg	8.72	1.34	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB
Manganese, Total	234		mg/kg	0.872	0.138	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB
Mercury, Total	0.826		mg/kg	0.071	0.047	1	07/17/19 05:20	07/17/19 11:08	EPA 7471B	1,7471B	GD
Nickel, Total	22.4		mg/kg	2.18	0.211	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB
Potassium, Total	3220		mg/kg	218	12.6	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB
Selenium, Total	0.296	J	mg/kg	1.74	0.225	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.872	0.247	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB
Sodium, Total	150	J	mg/kg	174	2.74	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.74	0.274	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB
Vanadium, Total	49.1		mg/kg	0.872	0.177	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB
Zinc, Total	375		mg/kg	4.36	0.255	2	07/16/19 21:55	07/18/19 22:02	EPA 3050B	1,6010D	AB

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-05 Date Collected: 07/05/19 10:30

Client ID: SB019 (3'-6') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

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	9.57	2.58	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB
Antimony, Total	9.27		mg/kg	4.79	0.364	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB
Arsenic, Total	21.3		mg/kg	0.957	0.199	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB
Barium, Total	275		mg/kg	0.957	0.166	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB
Beryllium, Total	0.373	J	mg/kg	0.479	0.032	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB
Cadmium, Total	3.40		mg/kg	0.957	0.094	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB
Calcium, Total	15100		mg/kg	9.57	3.35	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB
Chromium, Total	49.1		mg/kg	0.957	0.092	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB
Cobalt, Total	7.63		mg/kg	1.91	0.159	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB
Copper, Total	183		mg/kg	0.957	0.247	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB
Iron, Total	28200		mg/kg	4.79	0.864	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB
Lead, Total	1060		mg/kg	4.79	0.256	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB
Magnesium, Total	4060		mg/kg	9.57	1.47	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB
Manganese, Total	236		mg/kg	0.957	0.152	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB
Mercury, Total	0.784		mg/kg	0.077	0.050	1	07/17/19 05:20	07/17/19 11:10	EPA 7471B	1,7471B	GD
Nickel, Total	43.1		mg/kg	2.39	0.232	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB
Potassium, Total	1280		mg/kg	239	13.8	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB
Selenium, Total	1.77	J	mg/kg	1.91	0.247	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB
Silver, Total	0.680	J	mg/kg	0.957	0.271	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB
Sodium, Total	334		mg/kg	191	3.02	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.91	0.302	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB
Vanadium, Total	82.2		mg/kg	0.957	0.194	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB
Zinc, Total	1250		mg/kg	4.79	0.280	2	07/16/19 21:55	07/18/19 22:06	EPA 3050B	1,6010D	AB

Project Name: 355 EXTERIOR ST.
Lab Number: L1929439
Project Number: LST1802 TASK 07
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-06
Client ID: SB019 (6'-9')
Sample Location: 355 EXTERIOR ST., BRONX, NY
Date Collected: 07/05/19 10:35
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	1.01		mg/kg	0.474	0.099	1	07/29/19 10:30	07/29/19 12:28	EPA 3050B	1,6010D	PS
Lead, Total	71.8		mg/kg	2.37	0.127	1	07/29/19 10:30	07/29/19 12:28	EPA 3050B	1,6010D	PS

Project Name: 355 EXTERIOR ST.
Lab Number: L1929439
Project Number: LST1802 TASK 07
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-07
Client ID: SB020 (0'-3')
Sample Location: 355 EXTERIOR ST., BRONX, NY
Date Collected: 07/05/19 11:00
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7440		mg/kg	8.80	2.38	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC
Antimony, Total	5.49		mg/kg	4.40	0.334	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC
Arsenic, Total	10.2		mg/kg	0.880	0.183	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC
Barium, Total	217		mg/kg	0.880	0.153	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC
Beryllium, Total	0.290	J	mg/kg	0.440	0.029	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC
Cadmium, Total	0.932		mg/kg	0.880	0.086	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC
Calcium, Total	11400		mg/kg	8.80	3.08	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC
Chromium, Total	25.4		mg/kg	0.880	0.084	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC
Cobalt, Total	11.0		mg/kg	1.76	0.146	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC
Copper, Total	133		mg/kg	0.880	0.227	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC
Iron, Total	39000		mg/kg	4.40	0.794	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC
Lead, Total	389		mg/kg	4.40	0.236	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC
Magnesium, Total	4350		mg/kg	8.80	1.35	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC
Manganese, Total	385		mg/kg	0.880	0.140	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC
Mercury, Total	0.924		mg/kg	0.071	0.046	1	07/11/19 07:30	07/11/19 12:18	EPA 7471B	1,7471B	GD
Nickel, Total	23.9		mg/kg	2.20	0.213	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC
Potassium, Total	2090		mg/kg	220	12.7	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.76	0.227	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC
Silver, Total	0.352	J	mg/kg	0.880	0.249	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC
Sodium, Total	288		mg/kg	176	2.77	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.76	0.277	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC
Vanadium, Total	30.0		mg/kg	0.880	0.178	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC
Zinc, Total	360		mg/kg	4.40	0.258	2	07/11/19 21:54	07/12/19 23:06	EPA 3050B	1,6010D	LC

Project Name: 355 EXTERIOR ST.
Lab Number: L1929439
Project Number: LST1802 TASK 07
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-08
Client ID: SB021 (0'-3')
Sample Location: 355 EXTERIOR ST., BRONX, NY
Date Collected: 07/05/19 11:45
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11400		mg/kg	8.29	2.24	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.14	0.315	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB
Arsenic, Total	2.84		mg/kg	0.829	0.172	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB
Barium, Total	83.4		mg/kg	0.829	0.144	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB
Beryllium, Total	0.315	J	mg/kg	0.414	0.027	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB
Cadmium, Total	0.091	J	mg/kg	0.829	0.081	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB
Calcium, Total	2790		mg/kg	8.29	2.90	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB
Chromium, Total	24.3		mg/kg	0.829	0.080	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB
Cobalt, Total	12.1		mg/kg	1.66	0.138	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB
Copper, Total	28.2		mg/kg	0.829	0.214	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB
Iron, Total	20800		mg/kg	4.14	0.748	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB
Lead, Total	32.7		mg/kg	4.14	0.222	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB
Magnesium, Total	3820		mg/kg	8.29	1.28	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB
Manganese, Total	747		mg/kg	0.829	0.132	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.070	0.045	1	07/17/19 05:20	07/17/19 11:12	EPA 7471B	1,7471B	GD
Nickel, Total	15.5		mg/kg	2.07	0.200	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB
Potassium, Total	5110		mg/kg	207	11.9	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.66	0.214	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.829	0.234	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB
Sodium, Total	249		mg/kg	166	2.61	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.66	0.261	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB
Vanadium, Total	33.4		mg/kg	0.829	0.168	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB
Zinc, Total	83.2		mg/kg	4.14	0.243	2	07/16/19 21:55	07/18/19 22:10	EPA 3050B	1,6010D	AB

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-09 Date Collected: 07/05/19 11:50

Client ID: SB021 (3'-6') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8250		mg/kg	8.46	2.28	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB
Antimony, Total	1.18	J	mg/kg	4.23	0.321	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB
Arsenic, Total	7.84		mg/kg	0.846	0.176	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB
Barium, Total	121		mg/kg	0.846	0.147	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB
Beryllium, Total	0.288	J	mg/kg	0.423	0.028	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB
Cadmium, Total	0.524	J	mg/kg	0.846	0.083	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB
Calcium, Total	11300		mg/kg	8.46	2.96	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB
Chromium, Total	16.0		mg/kg	0.846	0.081	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB
Cobalt, Total	8.08		mg/kg	1.69	0.140	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB
Copper, Total	189		mg/kg	0.846	0.218	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB
Iron, Total	26300		mg/kg	4.23	0.764	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB
Lead, Total	145		mg/kg	4.23	0.227	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB
Magnesium, Total	3480		mg/kg	8.46	1.30	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB
Manganese, Total	278		mg/kg	0.846	0.134	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB
Mercury, Total	0.143		mg/kg	0.069	0.045	1	07/17/19 05:20	07/17/19 11:14	EPA 7471B	1,7471B	GD
Nickel, Total	26.1		mg/kg	2.11	0.205	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB
Potassium, Total	1960		mg/kg	211	12.2	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB
Selenium, Total	0.364	J	mg/kg	1.69	0.218	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB
Silver, Total	0.651	J	mg/kg	0.846	0.239	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB
Sodium, Total	320		mg/kg	169	2.66	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.69	0.266	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB
Vanadium, Total	20.5		mg/kg	0.846	0.172	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB
Zinc, Total	207		mg/kg	4.23	0.248	2	07/16/19 21:55	07/18/19 22:15	EPA 3050B	1,6010D	AB

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-11 Date Collected: 07/05/19 12:45

Client ID: SB022 (0'-3') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5680		mg/kg	8.47	2.29	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC
Antimony, Total	4.29		mg/kg	4.23	0.322	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC
Arsenic, Total	7.99		mg/kg	0.847	0.176	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC
Barium, Total	300		mg/kg	0.847	0.147	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC
Beryllium, Total	0.220	J	mg/kg	0.423	0.028	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC
Cadmium, Total	0.881		mg/kg	0.847	0.083	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC
Calcium, Total	9490		mg/kg	8.47	2.96	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC
Chromium, Total	13.3		mg/kg	0.847	0.081	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC
Cobalt, Total	6.76		mg/kg	1.69	0.140	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC
Copper, Total	137		mg/kg	0.847	0.218	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC
Iron, Total	24100		mg/kg	4.23	0.765	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC
Lead, Total	240		mg/kg	4.23	0.227	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC
Magnesium, Total	4450		mg/kg	8.47	1.30	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC
Manganese, Total	279		mg/kg	0.847	0.135	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC
Mercury, Total	0.341		mg/kg	0.070	0.046	1	07/11/19 07:30	07/11/19 12:20	EPA 7471B	1,7471B	GD
Nickel, Total	13.7		mg/kg	2.12	0.205	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC
Potassium, Total	1120		mg/kg	212	12.2	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.69	0.218	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.847	0.240	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC
Sodium, Total	120	J	mg/kg	169	2.67	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.69	0.267	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC
Vanadium, Total	24.9		mg/kg	0.847	0.172	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC
Zinc, Total	285		mg/kg	4.23	0.248	2	07/11/19 21:54	07/12/19 23:11	EPA 3050B	1,6010D	LC

Project Name: 355 EXTERIOR ST. **Lab Number:** L1929439

Project Number: LST1802 TASK 07 **Report Date:** 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-12 Date Collected: 07/05/19 13:50

Client ID: SB023 (0'-3') Date Received: 07/08/19

Sample Location: 355 EXTERIOR ST., BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7720		mg/kg	9.08	2.45	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB
Antimony, Total	9.20		mg/kg	4.54	0.345	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB
Arsenic, Total	2.67		mg/kg	0.908	0.189	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB
Barium, Total	54.0		mg/kg	0.908	0.158	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB
Beryllium, Total	0.309	J	mg/kg	0.454	0.030	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.908	0.089	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB
Calcium, Total	14300		mg/kg	9.08	3.18	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB
Chromium, Total	15.3		mg/kg	0.908	0.087	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB
Cobalt, Total	7.14		mg/kg	1.82	0.151	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB
Copper, Total	17.4		mg/kg	0.908	0.234	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB
Iron, Total	12600		mg/kg	4.54	0.820	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB
Lead, Total	317		mg/kg	4.54	0.243	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB
Magnesium, Total	4600		mg/kg	9.08	1.40	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB
Manganese, Total	233		mg/kg	0.908	0.144	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB
Mercury, Total	0.247		mg/kg	0.075	0.049	1	07/17/19 05:20	07/17/19 11:16	EPA 7471B	1,7471B	GD
Nickel, Total	11.7		mg/kg	2.27	0.220	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB
Potassium, Total	2530		mg/kg	227	13.1	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.82	0.234	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.908	0.257	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB
Sodium, Total	109	J	mg/kg	182	2.86	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.82	0.286	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB
Vanadium, Total	19.5		mg/kg	0.908	0.184	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB
Zinc, Total	49.1		mg/kg	4.54	0.266	2	07/16/19 21:55	07/18/19 22:19	EPA 3050B	1,6010D	AB

Project Name: 355 EXTERIOR ST.
Lab Number: L1929439
Project Number: LST1802 TASK 07
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-13
Client ID: SB023 (3'-6')
Sample Location: 355 EXTERIOR ST., BRONX, NY
Date Collected: 07/05/19 13:55
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11600		mg/kg	8.46	2.28	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.23	0.322	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB
Arsenic, Total	2.38		mg/kg	0.846	0.176	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB
Barium, Total	113		mg/kg	0.846	0.147	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB
Beryllium, Total	0.558		mg/kg	0.423	0.028	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.846	0.083	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB
Calcium, Total	2440		mg/kg	8.46	2.96	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB
Chromium, Total	21.9		mg/kg	0.846	0.081	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB
Cobalt, Total	13.1		mg/kg	1.69	0.140	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB
Copper, Total	28.0		mg/kg	0.846	0.218	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB
Iron, Total	18100		mg/kg	4.23	0.764	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB
Lead, Total	66.3		mg/kg	4.23	0.227	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB
Magnesium, Total	5410		mg/kg	8.46	1.30	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB
Manganese, Total	213		mg/kg	0.846	0.134	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.071	0.046	1	07/17/19 05:20	07/17/19 11:18	EPA 7471B	1,7471B	GD
Nickel, Total	24.1		mg/kg	2.12	0.205	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB
Potassium, Total	5520		mg/kg	212	12.2	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.69	0.218	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.846	0.239	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB
Sodium, Total	142	J	mg/kg	169	2.66	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.69	0.266	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB
Vanadium, Total	32.8		mg/kg	0.846	0.172	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB
Zinc, Total	75.1		mg/kg	4.23	0.248	2	07/16/19 21:55	07/18/19 22:37	EPA 3050B	1,6010D	AB

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07
Lab Number: L1929439
Report Date: 08/05/19

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): 01,07,11 Batch: WG1258441-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	07/11/19 07:30	07/11/19 11:57	1,7471B	GD

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): 01,07,11 Batch: WG1258800-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC
Iron, Total	ND		mg/kg	2.00	0.361	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC
Manganese, Total	ND		mg/kg	0.400	0.064	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC
Potassium, Total	ND		mg/kg	100	5.76	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC
Sodium, Total	5.67	J	mg/kg	80.0	1.26	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	07/11/19 21:54	07/12/19 20:54	1,6010D	LC

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07
Lab Number: L1929439
Report Date: 08/05/19

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): 02,04-05,08-09,12-13 Batch: WG1260620-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB
Iron, Total	ND		mg/kg	2.00	0.361	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB
Manganese, Total	ND		mg/kg	0.400	0.064	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB
Potassium, Total	ND		mg/kg	100	5.76	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB
Sodium, Total	ND		mg/kg	80.0	1.26	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	07/16/19 21:55	07/18/19 20:57	1,6010D	AB

Prep Information

Digestion Method: EPA 3050B

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07
Lab Number: L1929439
Report Date: 08/05/19

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): 02,04-05,08-09,12-13 Batch: WG1260778-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	07/17/19 05:20	07/17/19 10:49	1,7471B	GD

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): 06 Batch: WG1265731-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	07/29/19 10:30	07/29/19 12:18	1,6010D	PS
Lead, Total	ND		mg/kg	2.00	0.107	1	07/29/19 10:30	07/29/19 12:18	1,6010D	PS

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 355 EXTERIOR ST.

Project Number: LST1802 TASK 07

Lab Number: L1929439

Report Date: 08/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,07,11 Batch: WG1258441-2 SRM Lot Number: D105-540								
Mercury, Total	94		-		60-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 355 EXTERIOR ST.

Project Number: LST1802 TASK 07

Lab Number: L1929439

Report Date: 08/05/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,07,11 Batch: WG1258800-2 SRM Lot Number: D105-540					
Aluminum, Total	69	-	51-149	-	
Antimony, Total	138	-	19-249	-	
Arsenic, Total	92	-	70-130	-	
Barium, Total	91	-	75-125	-	
Beryllium, Total	101	-	75-125	-	
Cadmium, Total	96	-	75-125	-	
Calcium, Total	84	-	73-127	-	
Chromium, Total	86	-	70-130	-	
Cobalt, Total	91	-	75-125	-	
Copper, Total	89	-	75-125	-	
Iron, Total	78	-	38-162	-	
Lead, Total	81	-	71-128	-	
Magnesium, Total	81	-	63-137	-	
Manganese, Total	89	-	76-124	-	
Nickel, Total	94	-	70-131	-	
Potassium, Total	79	-	60-140	-	
Selenium, Total	90	-	63-137	-	
Silver, Total	87	-	69-131	-	
Sodium, Total	96	-	37-162	-	
Thallium, Total	90	-	68-132	-	
Vanadium, Total	86	-	65-135	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 355 EXTERIOR ST.

Project Number: LST1802 TASK 07

Lab Number: L1929439

Report Date: 08/05/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,07,11 Batch: WG1258800-2 SRM Lot Number: D105-540					
Zinc, Total	88	-	70-130	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 355 EXTERIOR ST.

Project Number: LST1802 TASK 07

Lab Number: L1929439

Report Date: 08/05/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04-05,08-09,12-13 Batch: WG1260620-2 SRM Lot Number: D105-540					
Aluminum, Total	67	-	51-149	-	
Antimony, Total	160	-	19-249	-	
Arsenic, Total	105	-	70-130	-	
Barium, Total	102	-	75-125	-	
Beryllium, Total	114	-	75-125	-	
Cadmium, Total	108	-	75-125	-	
Calcium, Total	97	-	73-127	-	
Chromium, Total	98	-	70-130	-	
Cobalt, Total	104	-	75-125	-	
Copper, Total	101	-	75-125	-	
Iron, Total	84	-	38-162	-	
Lead, Total	95	-	71-128	-	
Magnesium, Total	87	-	63-137	-	
Manganese, Total	98	-	76-124	-	
Nickel, Total	105	-	70-131	-	
Potassium, Total	85	-	60-140	-	
Selenium, Total	101	-	63-137	-	
Silver, Total	98	-	69-131	-	
Sodium, Total	103	-	37-162	-	
Thallium, Total	97	-	68-132	-	
Vanadium, Total	94	-	65-135	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 355 EXTERIOR ST.

Project Number: LST1802 TASK 07

Lab Number: L1929439

Report Date: 08/05/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04-05,08-09,12-13 Batch: WG1260620-2 SRM Lot Number: D105-540					
Zinc, Total	102	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 02,04-05,08-09,12-13 Batch: WG1260778-2 SRM Lot Number: D105-540					
Mercury, Total	114	-	60-141	-	
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG1265731-2 SRM Lot Number: D105-540					
Arsenic, Total	101	-	70-130	-	
Lead, Total	90	-	71-128	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

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): 01,07,11 QC Batch ID: WG1258441-3 WG1258441-4 QC Sample: L1930158-01 Client ID: MS Sample												
Mercury, Total	ND	0.154	0.124	80		0.125	82		80-120	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

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): 01,07,11 QC Batch ID: WG1258800-3 QC Sample: L1928859-04 Client ID: MS Sample										
Aluminum, Total	15400	183	16400	**545**	Q	-	-	75-125	-	20
Antimony, Total	39.6	45.8	110	**154**	Q	-	-	75-125	-	20
Arsenic, Total	7.25	11	22.3	**137**	Q	-	-	75-125	-	20
Barium, Total	28.5	183	189	88		-	-	75-125	-	20
Beryllium, Total	0.140J	4.58	3.87	84		-	-	75-125	-	20
Cadmium, Total	0.880	4.68	5.74	104		-	-	75-125	-	20
Calcium, Total	35000	917	31100	**0**	Q	-	-	75-125	-	20
Chromium, Total	22.0	18.3	47.9	**141**	Q	-	-	75-125	-	20
Cobalt, Total	13.0	45.8	54.9	91		-	-	75-125	-	20
Copper, Total	76000	22.9	63900	**0**	Q	-	-	75-125	-	20
Iron, Total	15200	91.7	20800	**6110**	Q	-	-	75-125	-	20
Lead, Total	2020	46.8	2720	**1500**	Q	-	-	75-125	-	20
Magnesium, Total	8980	917	9130	**16**	Q	-	-	75-125	-	20
Manganese, Total	493	45.8	558	**142**	Q	-	-	75-125	-	20
Nickel, Total	5610	45.8	5740	**284**	Q	-	-	75-125	-	20
Potassium, Total	593	917	1340	81		-	-	75-125	-	20
Selenium, Total	2.04	11	14.6	114		-	-	75-125	-	20
Silver, Total	11.4	27.5	40.2	105		-	-	75-125	-	20
Sodium, Total	155	917	984	90		-	-	75-125	-	20
Thallium, Total	ND	11	8.15	**74**	Q	-	-	75-125	-	20
Vanadium, Total	10.3	45.8	50.1	87		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

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): 01,07,11 QC Batch ID: WG1258800-3 QC Sample: L1928859-04 Client ID: MS Sample										
Zinc, Total	5110	45.8	4860	**0**	Q	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

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): 02,04-05,08-09,12-13 QC Batch ID: WG1260620-3 QC Sample: L1929104-01 Client ID: MS Sample										
Aluminum, Total	3860	173	4310	**260**	Q	-	-	75-125	-	20
Antimony, Total	1.06J	43.3	43.2	100		-	-	75-125	-	20
Arsenic, Total	10.4	10.4	19.6	88		-	-	75-125	-	20
Barium, Total	22.5	173	182	92		-	-	75-125	-	20
Beryllium, Total	0.336	4.33	4.76	102		-	-	75-125	-	20
Cadmium, Total	0.134J	4.42	4.27	97		-	-	75-125	-	20
Calcium, Total	6380	866	10400	**464**	Q	-	-	75-125	-	20
Chromium, Total	14.5	17.3	31.2	96		-	-	75-125	-	20
Cobalt, Total	5.64	43.3	42.1	84		-	-	75-125	-	20
Copper, Total	74.8	21.6	69.8	**0**	Q	-	-	75-125	-	20
Iron, Total	10100	86.6	9180	**0**	Q	-	-	75-125	-	20
Lead, Total	3540	44.2	174	**0**	Q	-	-	75-125	-	20
Magnesium, Total	2890	866	3560	77		-	-	75-125	-	20
Manganese, Total	81.8	43.3	116	79		-	-	75-125	-	20
Nickel, Total	16.1	43.3	53.8	87		-	-	75-125	-	20
Potassium, Total	1380	866	2070	80		-	-	75-125	-	20
Selenium, Total	ND	10.4	10.6	102		-	-	75-125	-	20
Silver, Total	ND	26	26.4	102		-	-	75-125	-	20
Sodium, Total	2620	866	3900	**148**	Q	-	-	75-125	-	20
Thallium, Total	ND	10.4	8.08	78		-	-	75-125	-	20
Vanadium, Total	11.9	43.3	51.4	91		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

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): 02,04-05,08-09,12-13 QC Batch ID: WG1260620-3 QC Sample: L1929104-01 Client ID: MS Sample										
Zinc, Total	224	43.3	218	**0**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 02,04-05,08-09,12-13 QC Batch ID: WG1260778-3 QC Sample: L1920721-02 Client ID: MS Sample										
Mercury, Total	ND	0.523	0.534	102		-	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1265731-3 QC Sample: L1929439-06 Client ID: SB019 (6'-9')										
Arsenic, Total	1.01	11.1	11.8	97		-	-	75-125	-	20
Lead, Total	71.8	47	105	**70**	Q	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,07,11 QC Batch ID: WG1258800-4 QC Sample: L1928859-04 Client ID: DUP Sample						
Antimony, Total	39.6	59.4	mg/kg	**40**	Q	20
Arsenic, Total	7.25	10.1	mg/kg	**33**	Q	20
Beryllium, Total	0.140J	0.135J	mg/kg	NC		20
Cadmium, Total	0.880	1.35	mg/kg	**42**	Q	20
Chromium, Total	22.0	23.1	mg/kg	5		20
Lead, Total	2020	2660	mg/kg	**27**	Q	20
Selenium, Total	2.04	2.96	mg/kg	**37**	Q	20
Silver, Total	11.4	14.5	mg/kg	**24**	Q	20
Thallium, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01,07,11 QC Batch ID: WG1258800-4 QC Sample: L1928859-04 Client ID: DUP Sample						
Nickel, Total	5610	5550	mg/kg	1		20
Zinc, Total	5110	5040	mg/kg	1		20
Total Metals - Mansfield Lab Associated sample(s): 01,07,11 QC Batch ID: WG1258800-4 QC Sample: L1928859-04 Client ID: DUP Sample						
Copper, Total	76000	72100	mg/kg	5		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04-05,08-09,12-13 QC Batch ID: WG1260620-4 QC Sample: L1929104-01 Client ID: DUP Sample						
Arsenic, Total	10.4	5.28	mg/kg	**65**	Q	20
Barium, Total	22.5	32.2	mg/kg	**35**	Q	20
Cadmium, Total	0.134J	ND	mg/kg	NC		20
Chromium, Total	14.5	20.9	mg/kg	**36**	Q	20
Lead, Total	3540	502	mg/kg	**150**	Q	20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 02,04-05,08-09,12-13 QC Batch ID: WG1260778-4 QC Sample: L1920721-02 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1265731-4 QC Sample: L1929439-06 Client ID: SB019 (6'-9')						
Arsenic, Total	1.01	0.841	mg/kg	18		20
Lead, Total	71.8	49.2	mg/kg	**37**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-01
Client ID: SB018 (0'-3')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 09:30
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.2		%	0.100	NA	1	-	07/09/19 01:53	121,2540G	SL

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-02
Client ID: SB018 (3'-6')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 09:35
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.6		%	0.100	NA	1	-	07/09/19 01:53	121,2540G	SL

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07
Lab Number: L1929439
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-04
Client ID: SB019 (0'-3')
Sample Location: 355 EXTERIOR ST., BRONX, NY
Sample Depth:
Matrix: Soil

Date Collected: 07/05/19 10:25
Date Received: 07/08/19
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	89.0		%	0.100	NA	1	-	07/09/19 01:53	121,2540G	SL

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-05
Client ID: SB019 (3'-6')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 10:30
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.9		%	0.100	NA	1	-	07/09/19 01:53	121,2540G	SL

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-06
Client ID: SB019 (6'-9')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 10:35
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.3		%	0.100	NA	1	-	07/24/19 11:37	121,2540G	RI

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-07
Client ID: SB020 (0'-3')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 11:00
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	07/09/19 01:53	121,2540G	SL

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07
Lab Number: L1929439
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-08
Client ID: SB021 (0'-3')
Sample Location: 355 EXTERIOR ST., BRONX, NY
Sample Depth:
Matrix: Soil
Date Collected: 07/05/19 11:45
Date Received: 07/08/19
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	90.4		%	0.100	NA	1	-	07/09/19 01:53	121,2540G	SL

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-09
Client ID: SB021 (3'-6')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 11:50
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
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	-	07/09/19 01:53	121,2540G	SL

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-10
Client ID: SB021 (6'-9')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 11:55
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.4		%	0.100	NA	1	-	07/17/19 00:23	121,2540G	YA

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-11
Client ID: SB022 (0'-3')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 12:45
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.9		%	0.100	NA	1	-	07/09/19 01:53	121,2540G	SL

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07
Lab Number: L1929439
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-12
Client ID: SB023 (0'-3')
Sample Location: 355 EXTERIOR ST., BRONX, NY
Sample Depth:
Matrix: Soil

Date Collected: 07/05/19 13:50
Date Received: 07/08/19
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	84.8		%	0.100	NA	1	-	07/09/19 03:27	121,2540G	YA

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

SAMPLE RESULTS

Lab ID: L1929439-13
Client ID: SB023 (3'-6')
Sample Location: 355 EXTERIOR ST., BRONX, NY

Date Collected: 07/05/19 13:55
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	07/09/19 03:27	121,2540G	YA

Lab Duplicate Analysis
Batch Quality Control

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02,04-05,07-09,11 QC Batch ID: WG1257322-1 QC Sample: L1929439-01 Client ID: SB018 (0'-3')						
Solids, Total	93.2	93.0	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 12-13 QC Batch ID: WG1257335-1 QC Sample: L1929537-05 Client ID: DUP Sample						
Solids, Total	66.5	61.8	%	7		20
General Chemistry - Westborough Lab Associated sample(s): 10 QC Batch ID: WG1260683-1 QC Sample: L1929439-10 Client ID: SB021 (6'-9')						
Solids, Total	89.4	90.3	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 06 QC Batch ID: WG1263811-1 QC Sample: L1932600-03 Client ID: DUP Sample						
Solids, Total	81.4	81.0	%	0		20

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1929439-01A	Glass 60mL/2oz unpreserved	A	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)
L1929439-01B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1929439-02A	Metals Only-Glass 60mL/2oz unpreserved	A	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)
L1929439-02B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TS(7)
L1929439-03A	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-8270(14)
L1929439-03B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-8270(14)
L1929439-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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)
L1929439-04B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TS(7)
L1929439-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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)
L1929439-05B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TS(7)
L1929439-06A	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		AS-TI(180),PB-TI(180),HOLD-8270(14)
L1929439-06B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		TS(7),HOLD-8270(14)

*Values in parentheses indicate holding time in days

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1929439-07A	Metals Only-Glass 60mL/2oz unpreserved	A	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)
L1929439-07B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1929439-08A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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)
L1929439-08B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TS(7)
L1929439-09A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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)
L1929439-09B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TS(7)
L1929439-10A	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TS(7),HOLD-8270(14)
L1929439-10B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TS(7),HOLD-8270(14)
L1929439-11A	Metals Only-Glass 60mL/2oz unpreserved	A	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)
L1929439-11B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1929439-12A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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)
L1929439-12B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TS(7)

*Values in parentheses indicate holding time in days

Project Name: 355 EXTERIOR ST.
Project Number: LST1802 TASK 07

Lab Number: L1929439
Report Date: 08/05/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1929439-13A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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)
L1929439-13B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TS(7)
L1929439-14A	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-8270(14)
L1929439-14B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-8270(14)

*Values in parentheses indicate holding time in days

Project Name:	355 EXTERIOR ST.	**Lab Number:**	L1929439
Project Number:	LST1802 TASK 07	**Report Date:**	08/05/19

GLOSSARY

Acronyms

DL - 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

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).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

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.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

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.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	355 EXTERIOR ST.	**Lab Number:**	L1929439
Project Number:	LST1802 TASK 07	**Report Date:**	08/05/19

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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.

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).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	355 EXTERIOR ST.	**Lab Number:**	L1929439
Project Number:	LST1802 TASK 07	**Report Date:**	08/05/19

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
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: Chloride, 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, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-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: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, 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 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, 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

ALPHA ANALYTICAL

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

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 1 of 2

Date Rec'd in Lab: 7/8/19

ALPHA Job #: L1929439

Client Information
Client: PW Grosser
Address: 630 Johnson Ave
Bohemia NY 11716
Phone: 631-589-6353
Fax:
Email: dErsbak@PWGrosser.com

Project Information
Project Name: 355 Exterior St
Project Location: 355 Exterior St Bronx, NY
Project # LSI1802 Task 07
(Use Project name as Project #) ☐
Project Manager: Derek Ersbak
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL SVOCs	TAL Metals	PCBs	Pesticides	Part 375 SVOCs	Ar, Ba, Pb, Hg, Se	Total Bottle	Sample Specific Comments
L1929439 -01	SB018 (0'-3')	7/5/19	0930	SOIL	DH	X	X	X	X	X			
-02	SB018 (3'-6')		0935							X	X		
-03	SB018 (6'-9')		0940							X	X		*HOLD
-04	SB019 (0'-3')		1025							X	X		
-05	SB019 (3'-6')		1030							X	X		
-06	SB019 (6'-9')		1035							X	X		*HOLD
-07	SB020 (0'-3')		1100			X	X	X	X	X			
-08	SB020 (3'-6')		1145							X	X		
-09	SB021 (3'-6')		1150							X	X		
-10	SB021 (6'-9')		1155							X	X		*HOLD

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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:	Date/Time	Received By:	Date/Time
	7/8/19 1125	AAL	7-8-19 1125
P.S.	7/8/19 1605	DS.	7/8/19 16:45
P.S.	7/8/19 20:30		7/8/19 2030

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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 2

Date Rec'd in Lab: 7/8/19

ALPHA Job #: L1929439

Client Information
Client: PW Grosser
Address: 630 Johnson Ave Bohemia NY 11716
Phone: 631-589-6353
Fax:
Email: dErsbak@PWGrosser.com

Project Information
Project Name: 355 Exterior St
Project Location: 355 Exterior St, Bronx, NY
Project # LST1802 Task 07
(Use Project name as Project #) ☐
Project Manager: Derek Ersbak
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL SVOCs	TAL Metals	PCBs	Pesticides	Part 375 SVOCs	As, Ba, Pb, Hg	Total Bottle	Sample Specific Comments
L29439-11	SB022 (0'-3')	7/5/19	1245	Soil	DH	X	X	X	X	X			
-12	SB023 (0'-3')		1350							X	X		
-13	SB023 (3'-6')		1355							X	X		
-14	SB023 (6'-9')		1400							X	X		* HOLD

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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:	Date/Time	Received By:	Date/Time
	7/8/19 1125	AAL	7-8-19 1125
	7-8-19 1005	B. AAM	7/8/19 16:45
P.S. AAL	7/8/19 20:32		7/8/19 2030

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

APPENDIX B
USEPA LOW-FLOW GROUNDWATER SAMPLING PROCEDURE

P.W. GROSSER CONSULTING, INC.
P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, P.C.
PHONE: 631.589.6353
PWGROSSER.COM
630 JOHNSON AVENUE, STE 7
BOHEMIA, NY 11716
LONG ISLAND • MANHATTAN • SARATOGA SPRINGS • SYRACUSE • SEATTLE • SHELTON

U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION I

LOW STRESS (low flow) PURGING AND SAMPLING PROCEDURE FOR THE COLLECTION OF GROUNDWATER SAMPLES FROM MONITORING WELLS

Quality Assurance Unit
U.S. Environmental Protection Agency – Region 1
11 Technology Drive
North Chelmsford, MA 01863

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Prepared by: ROBERT REINHART Digitally signed by ROBERT REINHART Date: 2017.09.19 16:15:38 -04'00' _____ _____
(Robert Reinhart, Quality Assurance Unit) Date

Approved by: JOHN SMALDONE Digitally signed by JOHN SMALDONE Date: 2017.09.20 15:11:00 -04'00' _____ _____
(John Smaldone, Quality Assurance Unit) Date

Revision Page

Date	Rev #	Summary of changes	Sections
7/30/96	1	Finalized	
01/19/10	2	Updated	All sections
3/23/17	3	Updated	All sections
9/20/17	4	Updated	Section 7.0

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1.0 USE OF TERMS

Equipment blank: The equipment blank shall include the pump and the pump's tubing. If tubing is dedicated to the well, the equipment blank needs only to include the pump in subsequent sampling rounds. If the pump and tubing are dedicated to the well, the equipment blank is collected prior to its placement in the well. If the pump and tubing will be used to sample multiple wells, the equipment blank is normally collected after sampling from contaminated wells and not after background wells.

Field duplicates: Field duplicates are collected to determine precision of the sampling procedure. For this procedure, collect duplicate for each analyte group in consecutive order (VOC original, VOC duplicate, SVOC original, SVOC duplicate, etc.).

Indicator field parameters: This SOP uses field measurements of turbidity, dissolved oxygen, specific conductance, temperature, pH, and oxidation/reduction potential (ORP) as indicators of when purging operations are sufficient and sample collection may begin.

Matrix Spike/Matrix Spike Duplicates: Used by the laboratory in its quality assurance program. Consult the laboratory for the sample volume to be collected.

Potentiometric Surface: The level to which water rises in a tightly cased well constructed in a confined aquifer. In an unconfined aquifer, the potentiometric surface is the water table.

QAPP: Quality Assurance Project Plan

SAP: Sampling and Analysis Plan

SOP: Standard operating procedure

Stabilization: A condition that is achieved when all indicator field parameter measurements are sufficiently stable (as described in the "Monitoring Indicator Field Parameters" section) to allow sample collection to begin.

Temperature blank: A temperature blank is added to each sample cooler. The blank is measured upon receipt at the laboratory to assess whether the samples were properly cooled during transit.

Trip blank (VOCs): Trip blank is a sample of analyte-free water taken to the sampling site and returned to the laboratory. The trip blanks (one pair) are added to each sample cooler that contains VOC samples.

2.0 SCOPE & APPLICATION

The goal of this groundwater sampling procedure is to collect water samples that reflect the total mobile organic and inorganic loads (dissolved and colloidal sized fractions) transported through the subsurface under ambient flow conditions, with minimal physical and chemical alterations from sampling operations. This standard operating procedure (SOP) for collecting groundwater samples will help ensure that the project's data quality objectives (DQOs) are met under certain low-flow conditions.

The SOP emphasizes the need to minimize hydraulic stress at the well-aquifer interface by maintaining low water-level drawdowns, and by using low pumping rates during purging and sampling operations. Indicator field parameters (e.g., dissolved oxygen, pH, etc.) are monitored during purging in order to determine when sample collection may begin. Samples properly collected using this SOP are suitable for analysis of groundwater contaminants (volatile and semi-volatile organic analytes, dissolved gases, pesticides, PCBs, metals and other inorganics), or naturally occurring analytes. This SOP is based on Puls, and Barcelona (1996).

This procedure is designed for monitoring wells with an inside diameter (1.5-inches or greater) that can accommodate a positive lift pump with a screen length or open interval ten feet or less and with a water level above the top of the screen or open interval (Hereafter, the "screen or open interval" will be referred to only as "screen interval"). This SOP is not applicable to other well-sampling conditions.

While the use of dedicated sampling equipment is not mandatory, dedicated pumps and tubing can reduce sampling costs significantly by streamlining sampling activities and thereby reducing the overall field costs.

The goal of this procedure is to emphasize the need for consistency in deploying and operating equipment while purging and sampling monitoring wells during each sampling event. This will help to minimize sampling variability.

This procedure describes a general framework for groundwater sampling. Other site specific information (hydrogeological context, conceptual site model (CSM), DQOs, etc.) coupled with systematic planning must be added to the procedure in order to develop an appropriate site specific SAP/QAPP. In addition, the site specific SAP/QAPP must identify the specific equipment that will be used to collect the groundwater samples.

This procedure does not address the collection of water or free product samples from wells containing free phase LNAPLs and/or DNAPLs (light or dense non-aqueous phase

liquids). For this type of situation, the reader may wish to check: Cohen, and Mercer (1993) or other pertinent documents.

This SOP is to be used when collecting groundwater samples from monitoring wells at all Superfund, Federal Facility and RCRA sites in Region 1 under the conditions described herein. Request for modification of this SOP, in order to better address specific situations at individual wells, must include adequate technical justification for proposed changes. All changes and modifications must be approved and included in a revised SAP/QAPP before implementation in field.

3.0 BACKGROUND FOR IMPLEMENTATION

It is expected that the monitoring well screen has been properly located (both laterally and vertically) to intercept existing contaminant plume(s) or along flow paths of potential contaminant migration. Problems with inappropriate monitoring well placement or faulty/improper well installation cannot be overcome by even the best water sampling procedures. This SOP presumes that the analytes of interest are moving (or will potentially move) primarily through the more permeable zones intercepted by the screen interval.

Proper well construction, development, and operation and maintenance cannot be overemphasized. The use of installation techniques that are appropriate to the hydrogeologic setting of the site often prevent "problem well" situations from occurring. During well development, or redevelopment, tests should be conducted to determine the hydraulic characteristics of the monitoring well. The data can then be used to set the purging/sampling rate, and provide a baseline for evaluating changes in well performance and the potential need for well rehabilitation. Note: if this installation data or well history (construction and sampling) is not available or discoverable, for all wells to be sampled, efforts to build a sampling history should commence with the next sampling event.

The pump intake should be located within the screen interval and at a depth that will remain under water at all times. It is recommended that the intake depth and pumping rate remain the same for all sampling events. The mid-point or the lowest historical midpoint of the saturated screen length is often used as the location of the pump intake. For new wells, or for wells without pump intake depth information, the site's SAP/QAPP must provide clear reasons and instructions on how the pump intake depth(s) will be selected, and reason(s) for the depth(s) selected. If the depths to top and bottom of the well screen are not known, the SAP/QAPP will need to describe how the sampling depth will be determined and how the data can be used.

Stabilization of indicator field parameters is used to indicate that conditions are suitable for sampling to begin. Achievement of turbidity levels of less than 5 NTU, and stable drawdowns of less than 0.3 feet, while desirable, are not mandatory. Sample collection

may still take place provided the indicator field parameter criteria in this procedure are met. If after 2 hours of purging indicator field parameters have not stabilized, one of three optional courses of action may be taken: a) continue purging until stabilization is achieved, b) discontinue purging, do not collect any samples, and record in log book that stabilization could not be achieved (documentation must describe attempts to achieve stabilization), c) discontinue purging, collect samples and provide full explanation of attempts to achieve stabilization (note: there is a risk that the analytical data obtained, especially metals and strongly hydrophobic organic analytes, may reflect a sampling bias and therefore, the data may not meet the data quality objectives of the sampling event).

It is recommended that low-flow sampling be conducted when the air temperature is above 32°F (0°C). If the procedure is used below 32°F, special precautions will need to be taken to prevent the groundwater from freezing in the equipment. Because sampling during freezing temperatures may adversely impact the data quality objectives, the need for water sample collection during months when these conditions are likely to occur should be evaluated during site planning and special sampling measures may need to be developed. Ice formation in the flow-through-cell will cause the monitoring probes to act erratically. A transparent flow-through-cell needs to be used to observe if ice is forming in the cell. If ice starts to form on the other pieces of the sampling equipment, additional problems may occur.

4.0 HEALTH & SAFETY

When working on-site, comply with all applicable OSHA requirements and the site's health/safety procedures. All proper personal protection clothing and equipment are to be worn. Some samples may contain biological and chemical hazards. These samples should be handled with suitable protection to skin, eyes, etc.

5.0 CAUTIONS

The following cautions need to be considered when planning to collect groundwater samples when the below conditions occur.

If the groundwater degasses during purging of the monitoring well, dissolved gases and VOCs will be lost. When this happens, the groundwater data for dissolved gases (e.g., methane, ethene, ethane, dissolved oxygen, etc.) and VOCs will need to be qualified. Some conditions that can promote degassing are the use of a vacuum pump (e.g., peristaltic pumps), changes in aperture along the sampling tubing, and squeezing/pinching the pump's tubing which results in a pressure change.

When collecting the samples for dissolved gases and VOCs analyses, avoid aerating the groundwater in the pump's tubing. This can cause loss of the dissolved gases and VOCs in

the groundwater. Having the pump's tubing completely filled prior to sampling will avoid this problem when using a centrifugal pump or peristaltic pump.

Direct sun light and hot ambient air temperatures may cause the groundwater in the tubing and flow-through-cell to heat up. This may cause the groundwater to degas which will result in loss of VOCs and dissolved gases. When sampling under these conditions, the sampler will need to shade the equipment from the sunlight (e.g., umbrella, tent, etc.). If possible, sampling on hot days, or during the hottest time of the day, should be avoided. The tubing exiting the monitoring well should be kept as short as possible to avoid the sun light or ambient air from heating up the groundwater.

Thermal currents in the monitoring well may cause vertical mixing of water in the well bore. When the air temperature is colder than the groundwater temperature, it can cool the top of the water column. Colder water which is denser than warm water sinks to the bottom of the well and the warmer water at the bottom of the well rises, setting up a convection cell. "During low-flow sampling, the pumped water may be a mixture of convecting water from within the well casing and aquifer water moving inward through the screen. This mixing of water during low-flow sampling can substantially increase equilibration times, can cause false stabilization of indicator parameters, can give false indication of redox state, and can provide biological data that are not representative of the aquifer conditions" (Vroblesky 2007).

Failure to calibrate or perform proper maintenance on the sampling equipment and measurement instruments (e.g., dissolved oxygen meter, etc.) can result in faulty data being collected.

Interferences may result from using contaminated equipment, cleaning materials, sample containers, or uncontrolled ambient/surrounding air conditions (e.g., truck/vehicle exhaust nearby).

Cross contamination problems can be eliminated or minimized through the use of dedicated sampling equipment and/or proper planning to avoid ambient air interferences. Note that the use of dedicated sampling equipment can also significantly reduce the time needed to complete each sampling event, will promote consistency in the sampling, and may reduce sampling bias by having the pump's intake at a constant depth.

Clean and decontaminate all sampling equipment prior to use. All sampling equipment needs to be routinely checked to be free from contaminants and equipment blanks collected to ensure that the equipment is free of contaminants. Check the previous equipment blank data for the site (if they exist) to determine if the previous cleaning procedure removed the contaminants. If contaminants were detected and they are a concern, then a more vigorous cleaning procedure will be needed.

6.0 PERSONNEL QUALIFICATIONS

All field samplers working at sites containing hazardous waste must meet the requirements of the OSHA regulations. OSHA regulations may require the sampler to take the 40 hour OSHA health and safety training course and a refresher course prior to engaging in any field activities, depending upon the site and field conditions.

The field samplers must be trained prior to the use of the sampling equipment, field instruments, and procedures. Training is to be conducted by an experienced sampler before initiating any sampling procedure.

The entire sampling team needs to read, and be familiar with, the site Health and Safety Plan, all relevant SOPs, and SAP/QAPP (and the most recent amendments) before going onsite for the sampling event. It is recommended that the field sampling leader attest to the understanding of these site documents and that it is recorded.

7.0 EQUIPMENT AND SUPPLIES

A. Informational materials for sampling event

A copy of the current Health and Safety Plan, SAP/QAPP, monitoring well construction data, location map(s), field data from last sampling event, manuals for sampling, and the monitoring instruments' operation, maintenance, and calibration manuals should be brought to the site.

B. Well keys.

C. Extraction device

Adjustable rate, submersible pumps (e.g., centrifugal, bladder, etc.) which are constructed of stainless steel or polytetrafluoroethylene (PTFE, i.e. Teflon®) are preferred. PTFE, however, should not be used when sampling for per- and polyfluoroalkyl substances (PFAS) as it is likely to contain these substances.

Note: If extraction devices constructed of other materials are to be used, adequate information must be provided to show that the substituted materials do not leach contaminants nor cause interferences to the analytical procedures to be used. Acceptance of these materials must be obtained before the sampling event.

If bladder pumps are selected for the collection of VOCs and dissolved gases, the pump setting should be set so that one pulse will deliver a water volume that is sufficient to fill a 40 mL VOC vial. This is not mandatory, but is considered a "best practice". For the proper operation, the bladder pump will need a minimum amount of water above the pump; consult the manufacturer for the recommended submergence. The pump's recommended submergence value should be determined during the planning stage, since it may influence well construction and placement of dedicated pumps where water-level fluctuations are significant.

Adjustable rate, peristaltic pumps (suction) are to be used with caution when collecting samples for VOCs and dissolved gases (e.g., methane, carbon dioxide, etc.) analyses. Additional information on the use of peristaltic pumps can be found in Appendix A. If peristaltic pumps are used, the inside diameter of the rotor head tubing needs to match the inside diameter of the tubing installed in the monitoring well.

Inertial pumping devices (motor driven or manual) are not recommended. These devices frequently cause greater disturbance during purging and sampling, and are less easily controlled than submersible pumps (potentially increasing turbidity and sampling variability, etc.). This can lead to sampling results that are adversely affected by purging and sampling operations, and a higher degree of data variability.

D. Tubing

PTFE (Teflon®) or PTFE-lined polyethylene tubing are preferred when sampling is to include VOCs, SVOCs, pesticides, PCBs and inorganics. As discussed in the previous section, PTFE tubing should not be used when sampling for PFAS. In this case, a suitable alternative such as high-density polyethylene tubing should be used.

PVC, polypropylene or polyethylene tubing may be used when collecting samples for metal and other inorganics analyses.

Note: If tubing constructed of other materials is to be used, adequate information must be provided to show that the substituted materials do not leach contaminants nor cause interferences to the analytical procedures to be used. Acceptance of these materials must be obtained before the sampling event.

The use of 1/4 inch or 3/8 inch (inside diameter) tubing is recommended. This will help ensure that the tubing remains liquid filled when operating at very low pumping rates when using centrifugal and peristaltic pumps.

Silastic tubing should be used for the section around the rotor head of a peristaltic pump. It should be less than a foot in length. The inside diameter of the tubing used at the pump rotor head must be the same as the inside diameter of tubing placed in the well. A tubing connector is used to connect the pump rotor head tubing to the well tubing. Alternatively, the two pieces of tubing can be connected to each other by placing the one end of the tubing inside the end of the other tubing. The tubing must not be reused.

E. The water level measuring device

Electronic ”tape”, pressure transducer, water level sounder/level indicator, etc. should be capable of measuring to 0.01 foot accuracy. Recording pressure transducers, mounted above the pump, are especially helpful in tracking water levels during pumping operations, but their use must include check measurements with a water level “tape” at the start and end of each sampling event.

F. Flow measurement supplies

Graduated cylinder (size according to flow rate) and stopwatch usually will suffice.

Large graduated bucket used to record total water purged from the well.

G. Interface probe

To be used to check on the presence of free phase liquids (LNAPL, or DNAPL) before purging begins (as needed).

H. Power source (generator, nitrogen tank, battery, etc.)

When a gasoline generator is used, locate it downwind and at least 30 feet from the well so that the exhaust fumes do not contaminate samples.

I. Indicator field parameter monitoring instruments

Use of a multi-parameter instrument capable of measuring pH, oxidation/reduction potential (ORP), dissolved oxygen (DO), specific conductance, temperature, and coupled with a flow-through-cell is required when measuring all indicator field parameters, except turbidity. Turbidity is collected using a separate instrument. Record equipment/instrument identification (manufacturer, and model number).

Transparent, small volume flow-through-cells (e.g., 250 mLs or less) are preferred. This allows observation of air bubbles and sediment buildup in the cell, which can interfere with the operation of the monitoring instrument probes, to be easily detected. A small volume

cell facilitates rapid turnover of water in the cell between measurements of the indicator field parameters.

It is recommended to use a flow-through-cell and monitoring probes from the same manufacturer and model to avoid incompatibility between the probes and flow-through-cell.

Turbidity samples are collected before the flow-through-cell. A "T" connector coupled with a valve is connected between the pump's tubing and flow-through-cell. When a turbidity measurement is required, the valve is opened to allow the groundwater to flow into a container. The valve is closed and the container sample is then placed in the turbidimeter.

Standards are necessary to perform field calibration of instruments. A minimum of two standards are needed to bracket the instrument measurement range for all parameters except ORP which use a Zobell solution as a standard. For dissolved oxygen, a wet sponge used for the 100% saturation and a zero dissolved oxygen solution are used for the calibration.

Barometer (used in the calibration of the Dissolved Oxygen probe) and the conversion formula to convert the barometric pressure into the units of measure used by the Dissolved Oxygen meter are needed.

J. Decontamination supplies

Includes (for example) non-phosphate detergent, distilled/deionized water, isopropyl alcohol, etc.

K. Record keeping supplies

Logbook(s), well purging forms, chain-of-custody forms, field instrument calibration forms, etc.

L. Sample bottles

M. Sample preservation supplies (as required by the analytical methods)

N. Sample tags or labels

O. PID or FID instrument

If appropriate, to detect VOCs for health and safety purposes, and provide qualitative field evaluations.

P. Miscellaneous Equipment

Equipment to keep the sampling apparatus shaded in the summer (e.g., umbrella) and from freezing in the winter. If the pump's tubing is allowed to heat up in the warm weather, the cold groundwater may degas as it is warmed in the tubing.

8.0 EQUIPMENT/INSTRUMENT CALIBRATION

Prior to the sampling event, perform maintenance checks on the equipment and instruments according to the manufacturer's manual and/or applicable SOP. This will ensure that the equipment/instruments are working properly before they are used in the field.

Prior to sampling, the monitoring instruments must be calibrated and the calibration documented. The instruments are calibrated using U.S Environmental Protection Agency Region 1 *Calibration of Field Instruments (temperature, pH, dissolved oxygen, conductivity/specific conductance, oxidation/reduction [ORP], and turbidity),* March 23, 2017, or latest version or from one of the methods listed in 40CFR136, 40CFR141 and SW-846.

The instruments shall be calibrated at the beginning of each day. If the field measurement falls outside the calibration range, the instrument must be re-calibrated so that all measurements fall within the calibration range. At the end of each day, a calibration check is performed to verify that instruments remained in calibration throughout the day. This check is performed while the instrument is in measurement mode, not calibration mode. If the field instruments are being used to monitor the natural attenuation parameters, then a calibration check at mid-day is highly recommended to ensure that the instruments did not drift out of calibration. Note: during the day if the instrument reads zero or a negative number for dissolved oxygen, pH, specific conductance, or turbidity (negative value only), this indicates that the instrument drifted out of calibration or the instrument is malfunctioning. If this situation occurs the data from this instrument will need to be qualified or rejected.

9.0 PRELIMINARY SITE ACTIVITIES (as applicable)

Check the well for security (damage, evidence of tampering, missing lock, etc.) and record pertinent observations (include photograph as warranted).

If needed, lay out a sheet of clean polyethylene for monitoring and sampling equipment, unless equipment is elevated above the ground (e.g., on a table, etc.).

Remove well cap and if appropriate measure VOCs at the rim of the well with a PID or FID instrument and record reading in field logbook or on the well purge form.

If the well casing does not have an established reference point (usually a V-cut or indelible mark in the well casing), make one. Describe its location and record the date of the mark in the logbook (consider a photographic record as well). All water level measurements must be recorded relative to this reference point (and the altitude of this point should be determined using techniques that are appropriate to site's DQOs.

If water-table or potentiometric surface map(s) are to be constructed for the sampling event, perform synoptic water level measurement round (in the shortest possible time) before any purging and sampling activities begin. If possible, measure water level depth (to 0.01 ft.) and total well depth (to 0.1 ft.) the day before sampling begins, in order to allow for re-settlement of any particulates in the water column. This is especially important for those wells that have not been recently sampled because sediment buildup in the well may require the well to be redeveloped. If measurement of total well depth is not made the day before, it should be measured after sampling of the well is complete. All measurements must be taken from the established referenced point. Care should be taken to minimize water column disturbance.

Check newly constructed wells for the presence of LNAPLs or DNAPLs before the initial sampling round. If none are encountered, subsequent check measurements with an interface probe may not be necessary unless analytical data or field analysis signal a worsening situation. This SOP cannot be used in the presence of LNAPLs or DNAPLs. If NAPLs are present, the project team must decide upon an alternate sampling method. All project modifications must be approved and documented prior to implementation.

If available check intake depth and drawdown information from previous sampling event(s) for each well. Duplicate, to the extent practicable, the intake depth and extraction rate (use final pump dial setting information) from previous event(s). If changes are made in the intake depth or extraction rate(s) used during previous sampling event(s), for either portable or dedicated extraction devices, record new values, and explain reasons for the changes in the field logbook.

10.0 PURGING AND SAMPLING PROCEDURE

Purging and sampling wells in order of increasing chemical concentrations (known or anticipated) are preferred.

The use of dedicated pumps is recommended to minimize artificial mobilization and entrainment of particulates each time the well is sampled. Note that the use of dedicated sampling equipment can also significantly reduce the time needed to complete each sampling event, will promote consistency in the sampling, and may reduce sampling bias by having the pump's intake at a constant depth.

A. Initial Water Level

Measure the water level in the well before installing the pump if a non-dedicated pump is being used. The initial water level is recorded on the purge form or in the field logbook.

B. Install Pump

Lower pump, safety cable, tubing and electrical lines slowly (to minimize disturbance) into the well to the appropriate depth (may not be the mid-point of the screen/open interval). The Sampling and Analysis Plan/Quality Assurance Project Plan should specify the sampling depth (used previously), or provide criteria for selection of intake depth for each new well. If possible keep the pump intake at least two feet above the bottom of the well, to minimize mobilization of particulates present in the bottom of the well.

Pump tubing lengths, above the top of well casing should be kept as short as possible to minimize heating the groundwater in the tubing by exposure to sun light and ambient air temperatures. Heating may cause the groundwater to degas, which is unacceptable for the collection of samples for VOC and dissolved gases analyses.

C. Measure Water Level

Before starting pump, measure water level. Install recording pressure transducer, if used to track drawdowns, to initialize starting condition.

D. Purge Well

From the time the pump starts purging and until the time the samples are collected, the purged water is discharged into a graduated bucket to determine the total volume of groundwater purged. This information is recorded on the purge form or in the field logbook.

Start the pump at low speed and slowly increase the speed until discharge occurs. Check water level. Check equipment for water leaks and if present fix or replace the affected equipment. Try to match pumping rate used during previous sampling event(s). Otherwise, adjust pump speed until there is little or no water level drawdown. If the

minimal drawdown that can be achieved exceeds 0.3 feet, but remains stable, continue purging.

Monitor and record the water level and pumping rate every five minutes (or as appropriate) during purging. Record any pumping rate adjustments (both time and flow rate). Pumping rates should, as needed, be reduced to the minimum capabilities of the pump to ensure stabilization of the water level. Adjustments are best made in the first fifteen minutes of pumping in order to help minimize purging time. During pump start-up, drawdown may exceed the 0.3 feet target and then "recover" somewhat as pump flow adjustments are made. Purge volume calculations should utilize stabilized drawdown value, not the initial drawdown. If the initial water level is above the top of the screen do not allow the water level to fall into the well screen. The final purge volume must be greater than the stabilized drawdown volume plus the pump's tubing volume. If the drawdown has exceeded 0.3 feet and stabilizes, calculate the volume of water between the initial water level and the stabilized water level. Add the volume of the water which occupies the pump's tubing to this calculation. This combined volume of water needs to be purged from the well after the water level has stabilized before samples are collected.

Avoid the use of constriction devices on the tubing to decrease the flow rate because the constrictor will cause a pressure difference in the water column. This will cause the groundwater to degas and result in a loss of VOCs and dissolved gasses in the groundwater samples.

Note: the flow rate used to achieve a stable pumping level should remain constant while monitoring the indicator parameters for stabilization and while collecting the samples.

Wells with low recharge rates may require the use of special pumps capable of attaining very low pumping rates (e.g., bladder, peristaltic), and/or the use of dedicated equipment. For new monitoring wells, or wells where the following situation has not occurred before, if the recovery rate to the well is less than 50 mL/min., or the well is being essentially dewatered during purging, the well should be sampled as soon as the water level has recovered sufficiently to collect the volume needed for all anticipated samples. The project manager or field team leader will need to make the decision when samples should be collected, how the sample is to be collected, and the reasons recorded on the purge form or in the field logbook. A water level measurement needs to be performed and recorded before samples are collected. If the project manager decides to collect the samples using the pump, it is best during this recovery period that the pump intake tubing not be removed, since this will aggravate any turbidity problems. Samples in this specific situation may be collected without stabilization of indicator field parameters. Note that field conditions and efforts to overcome problematic situations must be recorded in order to support field decisions to deviate from normal procedures described in this SOP. If this type of problematic situation persists in a well, then water sample collection should be

changed to a passive or no-purge method, if consistent with the site's DQOs, or have a new well installed.

E. Monitor Indicator Field Parameters

After the water level has stabilized, connect the "T" connector with a valve and the flow-through-cell to monitor the indicator field parameters. If excessive turbidity is anticipated or encountered with the pump startup, the well may be purged for a while without connecting up the flow-through-cell, in order to minimize particulate buildup in the cell (This is a judgment call made by the sampler). Water level drawdown measurements should be made as usual. If possible, the pump may be installed the day before purging to allow particulates that were disturbed during pump insertion to settle.

During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance, pH, ORP, DO) at a frequency of five minute intervals or greater. The pump's flow rate must be able to "turn over" at least one flow-through-cell volume between measurements (for a 250 mL flow-through-cell with a flow rate of 50 mLs/min., the monitoring frequency would be every five minutes; for a 500 mL flow-through-cell it would be every ten minutes). If the cell volume cannot be replaced in the five minute interval, then the time between measurements must be increased accordingly. Note: during the early phase of purging, emphasis should be put on minimizing and stabilizing pumping stress, and recording those adjustments followed by stabilization of indicator parameters. Purging is considered complete and sampling may begin when all the above indicator field parameters have stabilized. Stabilization is considered to be achieved when three consecutive readings are within the following limits:

Turbidity (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized),
Dissolved Oxygen (10% for values greater than 0.5 mg/L, if three Dissolved Oxygen values are less than 0.5 mg/L, consider the values as stabilized),
Specific Conductance (3%),
Temperature (3%),
pH (± 0.1 unit),
Oxidation/Reduction Potential (±10 millivolts).

All measurements, except turbidity, must be obtained using a flow-through-cell. Samples for turbidity measurements are obtained before water enters the flow-through-cell. Transparent flow-through-cells are preferred, because they allow field personnel to watch for particulate build-up within the cell. This build-up may affect indicator field parameter values measured within the cell. If the cell needs to be cleaned during purging operations, continue pumping and disconnect cell for cleaning, then reconnect after cleaning and

continue monitoring activities. Record start and stop times and give a brief description of cleaning activities.

The flow-through-cell must be designed in a way that prevents gas bubble entrapment in the cell. Placing the flow-through-cell at a 45 degree angle with the port facing upward can help remove bubbles from the flow-through-cell (see Appendix B Low-Flow Setup Diagram). Throughout the measurement process, the flow-through-cell must remain free of any gas bubbles. Otherwise, the monitoring probes may act erratically. When the pump is turned off or cycling on/off (when using a bladder pump), water in the cell must not drain out. Monitoring probes must remain submerged in water at all times.

F. Collect Water Samples

When samples are collected for laboratory analyses, the pump's tubing is disconnected from the "T" connector with a valve and the flow-through-cell. The samples are collected directly from the pump's tubing. Samples must not be collected from the flow-through-cell or from the "T" connector with a valve.

VOC samples are normally collected first and directly into pre-preserved sample containers. However, this may not be the case for all sampling locations; the SAP/QAPP should list the order in which the samples are to be collected based on the project's objective(s). Fill all sample containers by allowing the pump discharge to flow gently down the inside of the container with minimal turbulence.

If the pump's flow rate is too high to collect the VOC/dissolved gases samples, collect the other samples first. Lower the pump's flow rate to a reasonable rate and collect the VOC/dissolved gases samples and record the new flow rate.

During purging and sampling, the centrifugal/peristaltic pump tubing must remain filled with water to avoid aeration of the groundwater. It is recommended that 1/4 inch or 3/8 inch (inside diameter) tubing be used to help ensure that the sample tubing remains water filled. If the pump tubing is not completely filled to the sampling point, use the following procedure to collect samples: collect non-VOC/dissolved gases samples first, then increase flow rate slightly until the water completely fills the tubing, collect the VOC/dissolved gases samples, and record new drawdown depth and flow rate.

For bladder pumps that will be used to collect VOC or dissolved gas samples, it is recommended that the pump be set to deliver long pulses of water so that one pulse will fill a 40 mL VOC vial.

Use pre-preserved sample containers or add preservative, as required by analytical methods, to the samples immediately after they are collected. Check the analytical methods

(e.g. EPA SW-846, 40 CFR 136, water supply, etc.) for additional information on preservation.

If determination of filtered metal concentrations is a sampling objective, collect filtered water samples using the same low flow procedures. The use of an in-line filter (transparent housing preferred) is required, and the filter size (0.45 µm is commonly used) should be based on the sampling objective. Pre-rinse the filter with groundwater prior to sample collection. Make sure the filter is free of air bubbles before samples are collected. Preserve the filtered water sample immediately. Note: filtered water samples are not an acceptable substitute for unfiltered samples when the monitoring objective is to obtain chemical concentrations of total mobile contaminants in groundwater for human health or ecological risk calculations.

Label each sample as collected. Samples requiring cooling will be placed into a cooler with ice or refrigerant for delivery to the laboratory. Metal samples after acidification to a pH less than 2 do not need to be cooled.

G. Post Sampling Activities

If a recording pressure transducer is used to track drawdown, re-measure water level with tape.

After collection of samples, the pump tubing may be dedicated to the well for re-sampling (by hanging the tubing inside the well), decontaminated, or properly discarded.

Before securing the well, measure and record the well depth (to 0.1 ft.), if not measured the day before purging began. Note: measurement of total well depth annually is usually sufficient after the initial low stress sampling event. However, a greater frequency may be needed if the well has a “silting” problem or if confirmation of well identity is needed.

Secure the well.

11.0 DECONTAMINATION

Decontaminate sampling equipment prior to use in the first well, and then following sampling of each subsequent well. Pumps should not be removed between purging and sampling operations. The pump, tubing, support cable and electrical wires which were in contact with the well should be decontaminated by one of the procedures listed below.

The use of dedicated pumps and tubing will reduce the amount of time spent on decontamination of the equipment. If dedicated pumps and tubing are used, only the initial sampling event will require decontamination of the pump and tubing.

Note if the previous equipment blank data showed that contaminant(s) were present after using the below procedure or the one described in the SAP/QAPP, a more vigorous procedure may be needed.

Procedure 1

Decontaminating solutions can be pumped from either buckets or short PVC casing sections through the pump and tubing. The pump may be disassembled and flushed with the decontaminating solutions. It is recommended that detergent and alcohol be used sparingly in the decontamination process and water flushing steps be extended to ensure that any sediment trapped in the pump is removed. The pump exterior and electrical wires must be rinsed with the decontaminating solutions, as well. The procedure is as follows:

Flush the equipment/pump with potable water.

Flush with non-phosphate detergent solution. If the solution is recycled, the solution must be changed periodically.

Flush with potable or distilled/deionized water to remove all of the detergent solution. If the water is recycled, the water must be changed periodically.

Optional - flush with isopropyl alcohol (pesticide grade; must be free of ketones {e.g., acetone}) or with methanol. This step may be required if the well is highly contaminated or if the equipment blank data from the previous sampling event show that the level of contaminants is significant.

Flush with distilled/deionized water. This step must remove all traces of alcohol (if used) from the equipment. The final water rinse must not be recycled.

Procedure 2

Steam clean the outside of the submersible pump.

Pump hot potable water from the steam cleaner through the inside of the pump. This can be accomplished by placing the pump inside a three or four inch diameter PVC pipe with end cap. Hot water from the steam cleaner jet will be directed inside the PVC pipe and the pump exterior will be cleaned. The hot water from the steam cleaner will then be pumped from the PVC pipe through the pump and collected into another container. Note: additives or solutions should not be added to the steam cleaner.

Pump non-phosphate detergent solution through the inside of the pump. If the solution is recycled, the solution must be changed periodically.

Pump potable water through the inside of the pump to remove all of the detergent solution. If the solution is recycled, the solution must be changed periodically.

Pump distilled/deionized water through the pump. The final water rinse must not be recycled.

12.0 FIELD QUALITY CONTROL

Quality control samples are required to verify that the sample collection and handling process has not compromised the quality of the groundwater samples. All field quality control samples must be prepared the same as regular investigation samples with regard to sample volume, containers, and preservation. Quality control samples include field duplicates, equipment blanks, matrix spike/matrix spike duplicates, trip blanks (VOCs), and temperature blanks.

13.0 FIELD LOGBOOK

A field log shall be kept to document all groundwater field monitoring activities (see Appendix C, example table), and record the following for each well:

Site name, municipality, state.

Well identifier, latitude-longitude or state grid coordinates.

Measuring point description (e.g., north side of PVC pipe).

Well depth, and measurement technique.

Well screen length.

Pump depth.

Static water level depth, date, time and measurement technique.

Presence and thickness of immiscible liquid (NAPL) layers and detection method.

Pumping rate, drawdown, indicator parameters values, calculated or measured total volume pumped, and clock time of each set of measurements.

Type of tubing used and its length.

Type of pump used.

Clock time of start and end of purging and sampling activity.

Types of sample bottles used and sample identification numbers.

Preservatives used.

Parameters requested for analyses.

Field observations during sampling event.

Name of sample collector(s).

Weather conditions, including approximate ambient air temperature.

QA/QC data for field instruments.

Any problems encountered should be highlighted.

Description of all sampling/monitoring equipment used, including trade names, model number, instrument identification number, diameters, material composition, etc.

14.0 DATA REPORT

Data reports are to include laboratory analytical results, QA/QC information, field indicator parameters measured during purging, field instrument calibration information, and whatever other field logbook information is needed to allow for a full evaluation of data usability.

Note: the use of trade, product, or firm names in this sampling procedure is for descriptive purposes only and does not constitute endorsement by the U.S. EPA.

15.0 REFERENCES

Cohen, R.M. and J.W. Mercer, 1993, *DNAPL Site Evaluation*; C.K. Smoley (CRC Press), Boca Raton, Florida.

Robert W. Puls and Michael J. Barcelona, *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures*, April 1996 (EPA/540/S-95/504).

U.S. Environmental Protection Agency, 1992, *RCRA Ground-Water Monitoring: Draft Technical Guidance*; Washington, DC (EPA/530-R-93-001).

U.S. Environmental Protection Agency, 1987, *A Compendium of Superfund Field Operations Methods*; Washington, DC (EPA/540/P-87/001).

U.S Environmental Protection Agency, Region 1, *Calibration of Field Instruments (temperature, pH, dissolved oxygen, conductivity/specific conductance, oxidation/reduction [ORP], and turbidity),* March 23, 2017 or latest version.

U.S Environmental Protection Agency, EPA SW-846.

U.S Environmental Protection Agency, 40 CFR 136.

U.S Environmental Protection Agency, 40 CFR 141.

Vroblesky, Don A., Clifton C. Casey, and Mark A. Lowery, Summer 2007, Influence of Dissolved Oxygen Convection on Well Sampling, *Ground Water Monitoring & Remediation* 27, no. 3: 49-58.

APPENDIX A

PERISTALTIC PUMPS

Before selecting a peristaltic pump to collect groundwater samples for VOCs and/or dissolved gases, (e.g., methane, carbon dioxide, etc.) consideration should be given to the following:

- The decision of whether or not to use a peristaltic pump is dependent on the intended use of the data.
- If the additional sampling error that may be introduced by this device is NOT of concern for the VOC/dissolved gases data's intended use, then this device may be acceptable.
- If minor differences in the groundwater concentrations could affect the decision, such as to continue or terminate groundwater cleanup or whether the cleanup goals have been reached, then this device should NOT be used for VOC/dissolved gases sampling. In these cases, centrifugal or bladder pumps are a better choice for more accurate results.

EPA and USGS have documented their concerns with the use of the peristaltic pumps to collect water sample in the below documents.

- "Suction Pumps are not recommended because they may cause degassing, pH modification, and loss of volatile compounds" *A Compendium of Superfund Field Operations Methods*, EPA/540/P-87/001, December 1987.
- "The agency does not recommend the use of peristaltic pumps to sample ground water particularly for volatile organic analytes" *RCRA Ground-Water Monitoring Draft Technical Guidance*, EPA Office of Solid Waste, November 1992.
- "The peristaltic pump is limited to shallow applications and can cause degassing resulting in alteration of pH, alkalinity, and volatiles loss", *Low-flow (Minimal drawdown) Ground-Water Sampling Procedures*, by Robert Puls & Michael Barcelona, April 1996, EPA/540/S-95/504.
- "Suction-lift pumps, such as peristaltic pumps, can operate at a very low pumping rate; however, using negative pressure to lift the sample can result in the loss of volatile analytes", USGS Book 9 Techniques of Water-Resources Investigation, Chapter A4. (Version 2.0, 9/2006).

APPENDIX B

SUMMARY OF SAMPLING INSTRUCTIONS

These instructions are for using an adjustable rate, submersible pump or a peristaltic pump with the pump's intake placed at the midpoint of a 10 foot or less well screen or an open interval. The water level in the monitoring well is above the top of the well screen or open interval, the ambient temperature is above 32°F, and the equipment is not dedicated. Field instruments are already calibrated. The equipment is setup according to the diagram at the end of these instructions.

1. Review well installation information. Record well depth, length of screen or open interval, and depth to top of the well screen. Determine the pump's intake depth (e.g., mid-point of screen/open interval).

2. On the day of sampling, check security of the well casing, perform any safety checks needed for the site, lay out a sheet of polyethylene around the well (if necessary), and setup the equipment. If necessary a canopy or an equivalent item can be setup to shade the pump's tubing and flow-through-cell from the sun light to prevent the sun light from heating the groundwater.

3. Check well casing for a reference mark. If missing, make a reference mark. Measure the water level (initial) to 0.01 ft. and record this information.

4. Install the pump's intake to the appropriate depth (e.g., midpoint) of the well screen or open interval. Do not turn-on the pump at this time.

5. Measure water level and record this information.

6. Turn-on the pump and discharge the groundwater into a graduated waste bucket. Slowly increase the flow rate until the water level starts to drop. Reduce the flow rate slightly so the water level stabilizes. Record the pump's settings. Calculate the flow rate using a graduated container and a stop watch. Record the flow rate. Do not let the water level drop below the top of the well screen.

If the groundwater is highly turbid or discolored, continue to discharge the water into the bucket until the water clears (visual observation); this usually takes a few minutes. The turbid or discolored water is usually from the well-being disturbed during the pump installation. If the water does not clear, then you need to make a choice whether to continue purging the well (hoping that it will clear after a reasonable time) or continue to

the next step. Note, it is sometimes helpful to install the pump the day before the sampling event so that the disturbed materials in the well can settle out.

If the water level drops to the top of the well screen during the purging of the well, stop purging the well, and do the following:

> Wait for the well to recharge to a sufficient volume so samples can be collected. This may take a while (pump may be removed from well, if turbidity is not a problem). The project manager will need to make the decision when samples should be collected and the reasons recorded in the site's log book. A water level measurement needs to be performed and recorded before samples are collected. When samples are being collected, the water level must not drop below the top of the screen or open interval. Collect the samples from the pump's tubing. Always collect the VOCs and dissolved gases samples first. Normally, the samples requiring a small volume are collected before the large volume samples are collected just in case there is not sufficient water in the well to fill all the sample containers. All samples must be collected, preserved, and stored according to the analytical method. Remove the pump from the well and decontaminate the sampling equipment.

If the water level has dropped 0.3 feet or less from the initial water level (water level measure before the pump was installed); proceed to Step 7. If the water level has dropped more than 0.3 feet, calculate the volume of water between the initial water level and the stabilized water level. Add the volume of the water which occupies the pump's tubing to this calculation. This combined volume of water needs to be purged from the well after the water level has stabilized before samples are be collected.

7. Attach the pump's tubing to the "T" connector with a valve (or a three-way stop cock). The pump's tubing from the well casing to the "T" connector must be as short as possible to prevent the groundwater in the tubing from heating up from the sun light or from the ambient air. Attach a short piece of tubing to the other end of the end of the "T" connector to serve as a sampling port for the turbidity samples. Attach the remaining end of the "T" connector to a short piece of tubing and connect the tubing to the flow-through-cell bottom port. To the top port, attach a small piece of tubing to direct the water into a calibrated waste bucket. Fill the cell with the groundwater and remove all gas bubbles from the cell. Position the flow-through-cell in such a way that if gas bubbles enter the cell they can easily exit the cell. If the ports are on the same side of the cell and the cell is cylindrical shape, the cell can be placed at a 45-degree angle with the ports facing upwards; this position should keep any gas bubbles entering the cell away from the monitoring probes and allow the gas bubbles to exit the cell easily (see Low-Flow Setup Diagram). Note:

make sure there are no gas bubbles caught in the probes' protective guard; you may need to shake the cell to remove these bubbles.

8. Turn-on the monitoring probes and turbidity meter.

9. Record the temperature, pH, dissolved oxygen, specific conductance, and oxidation/reduction potential measurements. Open the valve on the "T" connector to collect a sample for the turbidity measurement, close the valve, do the measurement, and record this measurement. Calculate the pump's flow rate from the water exiting the flow-through-cell using a graduated container and a stop watch, and record the measurement. Measure and record the water level. Check flow-through-cell for gas bubbles and sediment; if present, remove them.

10. Repeat Step 9 every 5 minutes or as appropriate until monitoring parameters stabilized. Note: at least one flow-through-cell volume must be exchanged between readings. If not, the time interval between readings will need to be increased. Stabilization is achieved when three consecutive measurements are within the following limits:

Turbidity (10% for values greater than 5 NTUs; if three Turbidity values are less than 5 NTUs, consider the values as stabilized),
Dissolved Oxygen (10% for values greater than 0.5 mg/L, if three Dissolved Oxygen values are less than 0.5 mg/L, consider the values as stabilized),
Specific Conductance (3%),
Temperature (3%),
pH (± 0.1 unit),
Oxidation/Reduction Potential (±10 millivolts).

If these stabilization requirements do not stabilize in a reasonable time, the probes may have been coated from the materials in the groundwater, from a buildup of sediment in the flow-through-cell, or a gas bubble is lodged in the probe. The cell and the probes will need to be cleaned. Turn-off the probes (not the pump), disconnect the cell from the "T" connector and continue to purge the well. Disassemble the cell, remove the sediment, and clean the probes according to the manufacturer's instructions. Reassemble the cell and connect the cell to the "T" connector. Remove all gas bubbles from the cell, turn-on the probes, and continue the measurements. Record the time the cell was cleaned.

11. When it is time to collect the groundwater samples, turn-off the monitoring probes, and disconnect the pump's tubing from the "T" connector. If you are using a centrifugal or peristaltic pump check the pump's tubing to determine if the tubing is completely filled with water (no air space).

All samples must be collected and preserved according to the analytical method. VOCs and dissolved gases samples are normally collected first and directly into pre-preserved sample containers. However, this may not be the case for all sampling locations; the SAP/QAPP should list the order in which the samples are to be collected based on the project's objective(s). Fill all sample containers by allowing the pump discharge to flow gently down the inside of the container with minimal turbulence.

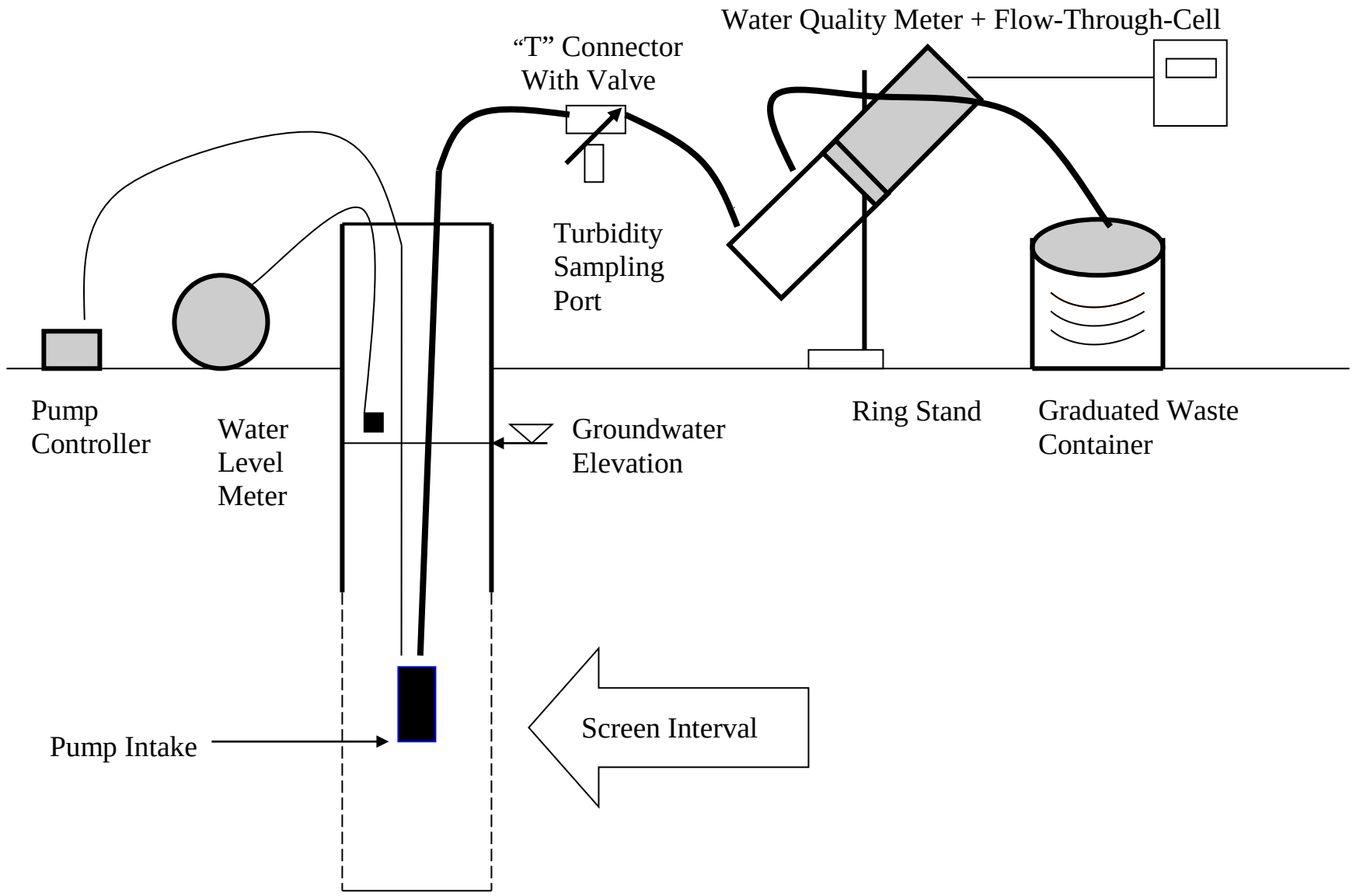
If the pump's tubing is not completely filled with water and the samples are being collected for VOCs and/or dissolved gases analyses using a centrifugal or peristaltic pump, do the following:

> All samples must be collected and preserved according to the analytical method. The VOCs and the dissolved gases (e.g., methane, ethane, ethene, and carbon dioxide) samples are collected last. When it becomes time to collect these samples increase the pump's flow rate until the tubing is completely filled. Collect the samples and record the new flow rate.

12. Store the samples according to the analytical method.

13. Record the total purged volume (graduated waste bucket). Remove the pump from the well and decontaminate the sampling equipment.

Low-Flow Setup Diagram



APPENDIX C

EXAMPLE (Minimum Requirements)

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name)_____ Depth to _____/_____ of screen
Well Number_____ Date_____ (below MP) top bottom
Field Personnel_____ Pump Intake at (ft. below MP)_____
Sampling Organization_____ Purging Device; (pump type)_____
Identify MP_____ Total Volume Purged _____

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. "C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Tur-bidity NTU	Comments
Stabilization Criteria					3%	3%	±0.1	±10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

APPENDIX C
PROJECT TEAM RESUMES

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LONG ISLAND • MANHATTAN • SARATOGA SPRINGS • SYRACUSE • SEATTLE • SHELTON

Derek Ersbak, PG • SR. PROJECT MANAGER



PROFESSIONAL EXPERIENCE

PWGC: 13 years

PRIOR: 4 years

AREAS OF EXPERTISE

Environmental Due Diligence
Petroleum Bulk Storage Regulations
ASTM Standards for Phase I and II Environmental Site Assessments
Preparation of Investigative and Remedial Plans and Reports
Preparation of Remedial Cost Estimates and Remedial Alternatives
Health & Safety Protocols
Air Monitoring Protocols
Environmental Compliance
Landfill Operations, Compliance, and Monitoring
State and Federal Remedial Programs (BCP, VCP, ERP, Hazardous Waste Sites, RCRA)
Wetland Delineation
Fish and Wildlife Resource Impact Assessments

EDUCATION & TRAINING/CERTIFICATION

BS, Biology (Concentration: Ecological/Environmental Study), SUNY Binghamton, NY
New York State Professional Geologist
OSHA Supervisor 8-hr; HazWoper 40-hr; Construction Safety & Health 10-hr
Completed a course for Radon Measurement Operators
Introduction to Wetland Identification Course (Rutgers)
QN Fit Tested for Respirator Use
ASTM Training on Phase I and Phase II Environmental Site Assessments for Commercial Real Estate

PROFILE

Mr. Ersbak has extensive experience in environmental due diligence, state and federal remedial programs, and landfill operations. He coordinates field activities, subcontractors, and personnel to satisfy client and regulatory agency project objectives. Mr. Ersbak prepares work plans, field reports, laboratory analysis summaries, and provides recommendations to integrate his findings into client's environmental strategies and business goals.

NOTABLE PROJECTS

Garvies Point Waterfront Revitalization Project (GPWRP)

RXR-Glen-Isle Partners, LLC

The GPWRP is a $1 billion, 56-acre mixed-use development on Glen Cove's waterfront. Representing one of the most significant site redevelopments on Long Island, the efforts at Garvies Point have been years in the making and has involved the remediation and repositioning of several parcels on and in proximity to the northern side of Glen Cove Creek. Most of the parcels required significant environmental assessment, remediation and regulatory reporting based on their past, heavy industrial uses; most notably the Li Tungsten Federal superfund site and the Captain Cove State superfund site.

The Garvies Point redevelopment is slated for the construction of 555 rental apartments, 555 for-sale condominiums, and approximately 75,000 square feet of retail and office space. In addition, 28 acres of the development will consist of waterfront esplanades and parks.

PWGC has played a lead role in assisting RXR with the environmental assessment, remediation and reporting of the assembly of parcels that make up the Garvies Point project. Mr. Ersbak has held an active role through various stages of the GPWRP since 2012. He now acts as the senior project manager overseeing numerous environmental consulting programs for this major waterfront redevelopment project in the City of Glen Cove.

Project Stages and Milestones

Investigation of Development Area – Mr. Ersbak implemented subsurface investigations designed to establish existing conditions throughout the project area. To accomplish this goal, Mr. Ersbak developed a workplan to address data gaps and establish existing conditions throughout the development area.

This subsurface investigation included more than 200 soil and groundwater borings to fully characterize the site. Mr. Ersbak prepared and coordinated a full spectrum of environmental documents including health and safety plans, community air monitoring plans, radiological monitoring plan, MARSSIM survey support, geotechnical support services, TOGS sampling and waste characterization and disposal oversight. With this information, Mr. Ersbak worked closely with the New York State Department of Environmental Conservation (NYSDEC) and the United States Environmental Protection Agency (USEPA) evaluating site data and preparing and implementing a pre-development remediation plan that has been completed to the satisfaction of these agencies. As part of the evaluation, Mr. Ersbak performed and coordinated Synthetic Precipitation Leachate (SP/LP) sampling and analysis. The results of this investigation and in conjunction with the NYSDEC and USEPA established site specific cleanup objectives protective of the public health and environment.

Remedial Program – The completion of the investigation lead to Amended Records of Decisions (ARODS) for both the Li Tungsten and Captain Cove sites, which established the remedial objectives for the sites. With this information, Mr. Ersbak prepared pre-construction/closing remedial action workplans designed to remediate the site so they can be developed for their intended use. Once approved, Mr. Ersbak managed the remedial program on both sites which included extensive excavation on multiple parcels while coordinating the appropriate monitoring, endpoint sampling and waste disposal aspects of the project following completion RXR received No Further Action notices from the agencies indicating remediation was complete.

Lead Environmental Monitor – Given our extensive knowledge, PWGC was retained as the environmental monitor for the construction portion of the project by RXR and the City of Glen Cove. As part of the role, Mr. Ersbak has been tasked with finalizing multiple Site Management Plans (SMP) and the preparation of Excavation Work Plans (EWP) that describe specific procedures and protocols that are designed to implement the appropriate engineering/environmental controls needed for construction. Mr. Ersbak continues to manage the monitoring activities and works with the NYSDEC and USEPA on a daily basis documenting that the appropriate plans are being followed, including the collection of confirmation samples, re-use samples, and overseeing the appropriate engineering control installation which includes a composite cap with multiple demarcation barriers and sub-slab depressurization systems (SSDS).

Brownfield Cleanup Program (BCP)/Environmental Restoration Program (ERP)

Bellport Gas Station Site – ERP– He performed a remedial investigation to determine the extent of contamination present. Developed several remedial alternatives and presented them to Suffolk County for preferred remedial selection. Assisted NYSDEC in the preparation of PRAP and ROD for the site. Developed Remedial Design Work Plan, Final Engineering Report, and Site Management Plan which resulted in issuance of Certificate of Completion. He currently oversees implementation of operation, maintenance, and monitoring at the site and prepares Periodic Review Reports.

Ronkonkoma Wallpaper Site – ERP – He performed field investigations to determine the extent of historical site usage to on-site drainage and sanitary systems as well as delineate the extents of a historical contamination. Specifically, performed a fish and wildlife resource impact assessment, oversaw the excavation and exposure of underground leaching structures, collection of soil and groundwater samples, coordination with SCDHS officials, and preparation of reports and data management.

Arkansas Chemical Company Site – BCP– He managed all aspects of the project. Specifically, he prepared all work plans and reports, coordinated with regulatory agencies, developers, and contractors, managed field activities and construction schedules. The site was successfully remediated and a Certificate of Completion was issued.

Landfills

Town of Brookhaven Landfill - Landfill Air Monitoring - In the wake of Hurricane Sandy, The Town of Brookhaven accepted vegetative debris at the Town of Brookhaven Municipal Landfill where the debris was burned to reduce the sheer volume. In response to air pollution complaints, PWGC was retained to performed perimeter air monitoring at the landfill for airborne particulates. In order to monitor the air quality surrounding the burn area, three Beta Mass Monitors (EBAM) were set up near the burn area, one in the prevailing upwind direction, one in the prevailing downwind direction, and one in the local community where complaints have been filed. PWGC maintained the monitors and analyzed the data, preparing daily reports for SCDPW.

Town of Ronkonkoma and Town of Southampton – Post Closure Operation and Maintenance - He currently manages the towns post closure OM&M requirements for the landfills in accordance with Part 360 requirements. He coordinates directly with the towns and regulators, schedules field activities, reviews collected data, prepares reports and provides recommendations for maintenance of the landfills.

NYCOER "E" Designation & NYCOER VCP Projects

30-17 40th Avenue (LIC Taxi Site)- Provided services for all phases of the "E" Designation Program including, Phase I Environmental Site Assessment, development of site specific Subsurface Investigation Work Plan and Health and Safety Plan, management of Subsurface Investigation, development of Subsurface Investigation Report, coordination with petroleum spill investigation, remediation and closure, development of Remedial Action Plan and Construction Health and Safety Plan, and management of remedial action.

100 Varick Street (SOHO Tower Site)- Provided services for all phases of the "E" Designation Program including, Phase I Environmental Site Assessment, property acquisition support, development of site specific Subsurface Investigation Work Plan and Health and Safety Plan, management of Subsurface Investigation, development of Subsurface Investigation Report, management of waste characterization and construction contract support.

2211 Third Avenue (HAP Site)- Provided services for the remedial phase of the VCP site including assistance with establishment of new BCP Agreement, preparation and implementation of waste characterization / beneficial reuse analysis for soils to be excavated at the site, management of remedial construction activities, and coordination with NYSDEC for petroleum spill identification and remediation.

State and Federal Superfund Sites

MATTEO Superfund Site - Mr. Ersbak performed environmental oversight associated with remedial investigation services, including sonic drilling, well development, subsurface sampling, and GPS surveying oversight and support.

Lead Sampling Analysis - New York, NY

Mr. Ersbak performed water sampling to test for lead in accordance with the Lead and Copper Rule (LCR). Mr. Ersbak coordinated with the building staff to access the sites and assess the building to determine which plumbing fixtures were to be sampled. He accessed the building, after school hours, to create site plan layouts of each floor and the fixtures to be sampled. Samples were drawn within a specific time frame in accordance with clients requests.

James Rhodes, PG • COO



PROFESSIONAL EXPERIENCE
PWGC: 25 years
PRIOR: 5 years

AREAS OF EXPERTISE
Brownfields/Redevelopment Management
Environmental Compliance Management
Property/Real Estate Due Diligence Expert – Transaction & Environmental
Site Assessment & Reuse Analysis
Environmental & Remedial Investigations - Soil/Groundwater and Air Quality

EDUCATION & TRAINING/CERTIFICATION
MS, Earth Science/Hydrogeology, Adelphi University, NY
BS, Geology, SUNY Oneonta, NY
Executive Education (ACEC)
Leading Professional Service Firms - Harvard Business School
Licensed Professional Geologist - NYS
Phase I Environmental Inspector - Environmental Assessment Association
Professional Geologist - American Institute of Professional Geologists
Licensed Real Estate Salesperson - NY
OSHA HAZWOPER 40-hr.

PROFILE
In 2017, James Rhodes was named PWGC's Chief Operating Officer. In this role Mr. Rhodes is responsible for the operations of the business, working in tandem with the CEO and President. Roles will vary by industry but they will typically be involved in day every-day management, particularly business strategy, business planning and monitoring business performance. The COO provides leadership, management and vision necessary to ensure that the firm has the proper operational controls, administrate and reporting procedures and people systems in place to effectively grow the organization and ensure financial strength and operating efficiency. The position accomplishes this through respectful, constructive and energetic communications styles guided by the objectives of the company.

Prior to his promotion, Mr. Rhodes led PWGC's Environmental Unit. There he utilized his 30 years' experience as an expert in managing environmental concerns unique to the real estate market, serving public and private sectors. Through his tenure he has provided guidance to associates and clients, maintains established working relationships with regulators at multiple levels of government. His expertise enables clear communication on project requirements and speeds the approval process.

Mr. Rhodes' expertise in environmental remediation and redevelopment fields includes environmental site assessments (ESA), such as Phase I/II ESAs, RI/FS, NYS Brownfield studies, NYC "E" Designation Program, and cost to cure estimates for real estate tax purposes. His experience with soil and groundwater investigations, air quality studies and remedial measures has benefitted clients that include attorneys and developers, insurance companies and municipal agencies. His resourcefulness to pinpoint key environmental concerns quickly helps avoid unexpected delays and cost overruns, benefitting the client.

NOTABLE PROJECTS
PWGC Environmental Real Estate Sector Services
Phase I & Phase II Environmental Site Assessment (ESA) Management – As Program Director for Property Transactions & Real Estate Environmental Management Services & Support for PWGC, Rhodes oversees Phase I & II ESA planning, implementation and completion. He ensures that each ESA is tailored to client needs and long-term goals. For each project, a targeted scope of work and relevant documentation is prepared for clients to allow them to make cost-effective business decisions. PWGC typically performs more than 60 Phase I & Phase II ESA's annually with clients that include attorneys, lending institutions and municipalities. Given his experience, Rhodes provides clients workable environmental solutions for real estate issues. Under his management, PWGC Phase I/II reports are recognized by peers and clients for effectively utilizing escrow agreements, environmental insurance and cost-to-cure estimates. Mr. Rhodes acts as the Project Director for these projects and is the main liaison with the SCDHS. As part of his duties, Mr. Rhodes participated in meetings with the New York State Department of Environmental Conservation and collaborated with SCDHS to streamline the brownfield restoration process.

Garvies' Point Redevelopment Project
RXR-Glen-Isle Partners, LLC – Mr. Rhodes has been acting as project director overseeing numerous environmental consulting programs for this major waterfront redevelopment project in the City of Glen Cove. PWGC was brought into the project to perform full spectrum environmental due diligence services for the waterfront area when RXR Realty, LLC entered into the

project. The waterfront area includes sites in both the New York State and Federal Superfund programs - including the Li Tungsten and Captain's Cove sites - and the initial due diligence services, which focused on current remedial status and what needed to be completed in order for the redevelopment to proceed. Over the last several years, PWGC has been working closely with the development team including RXR-Glen-Isle Partners, LLC, the City of Glen Cove, regulatory agencies including the NYSDEC, NYSDOH, NCDH, and USEPA to move the project toward redevelopment. Towards this goal, PWGC continues to work with and coordinate services of other consultants to obtain the necessary information to allow the project to proceed. To accomplish this goal, PWGC has prepared numerous plans and reports including a work plan to address data gaps throughout the multiple parcels along the waterfront. The subsurface investigation performed under this plan included more than 200 soil borings to fully characterize the site to eliminate data gaps, which will allow the project to obtain environmental insurance. PWGC has been involved in all aspects of environmental consulting on this project as it readies for redevelopment including evaluation of site specific soil cleanup objectives, SWPPP preparation and oversight, petroleum remediation oversight, radiological monitoring plan preparation, MARSSIM survey support services, building demolition support services, geotechnical support services, TOGS sampling support services, waste characterization and disposal oversight, and dredge spoil characterization and handling. Project related documents prepared by PWGC include the Data Gap Workplan and Report, Visual Stained Petroleum Soil Remediation Report, Synthetic Precipitation Leachate Procedure (SPLP)/Red Flag Area Characterization Plan and Report. Li Tungsten Existing Condition Report and Captains Cove Existing Condition Report. PWGC continues to provide field oversight services for all aspect of the project, including health and safety and community air monitoring services.

Bellport Gas Station-Bellport, NY
Brownfield's Consulting Support Services – This Suffolk County Brownfields site is currently in the New York State Department of Environmental Conservation (NYSDEC) Environmental Restoration Program. Mr. Rhodes oversaw the preparation of a remedial investigation work plan and the Remedial Investigation/Alternative Analysis report. In addition, an Interim Remedial Measure was performed and a final Remedial Action Plan with NYSDEC was negotiated. He submitted a final site management plan with an environmental easement. The site has been remediated and PWGC continues to monitor the site as required.

Avalon Bay Communities - Rockville Center, NY
Brownfields Project Management -& Planning – As project director, Mr. Rhodes provided technical support and acted as a liaison between the New York State Department of Environmental Conservation (NYSDEC), the Village of Rockville Centre, the site's previous owner and new owner, Avalon Bay Communities. He was an advocate for Avalon Bay's needs and goals to redevelop the former industrial site as residential in meetings with NYSDEC and collaborated with the client and project team to develop the most effective strategy to streamline the project's representation with the state under the BCP program. Mr. Rhodes provided invaluable guidance in regard to the project's scope of work and documentation preparation, which included work plans, sampling and RI reporting. He was instrumental in obtaining all permits to complete the IRM work plan as well as throughout the performance of the IRM. The site then went to final remedial action work plan, design and oversight of final remediation, completion of site management plan and easement, which was first project of its type on Long Island to obtain COC and was a winner of ACEC Diamond Award for engineering excellence.

Expeditors c/o Cargo Ventures LLC - Inwood, NY
Environmental Site Assessment, Remediation, & Redevelopment – Mr. Rhodes supervised the investigation, remediation and redevelopment of a New York State Department of Environmental Conservation (NYSDEC) designated spill site on 4.25 acres at a former Shell Oil terminal located along Negro Bar Channel in Inwood, NY. As part of this multifaceted project,

Suffolk County Department of Health Services (SCDHS)
Brownfield Program Engineering Consulting Services Agreement – Through a competitive bidding process, PWGC was chosen by SCDHS as its engineering consultant related to County-owned Brownfield sites. Currently, PWGC is working on five sites for SCDHS in various stages of the Brownfield Cleanup Program (BCP). These sites are in both the municipal Environmental Restoration Program (ERP) and BCP in situations where the county assumed responsibility for the site. PWGC prepared a Phase I Environmental Site Assessment and documented historic environmental work performed at the site to satisfy requirements from associated lending institutions. Rhodes oversaw the completion of a subsurface investigation to determine site conditions to prepare appropriate NYSDEC-approved Corrective and Remedial Action Plans. Further, he oversaw the removal of petroleum-impacted soils, which resulted in an excavation measuring 60,000 square feet and more than 40,000 tons of impacted soils processed.

Benjamin Beechwood, LLC, Arverne Urban Renewal Area (URA) - Far Rockaway, NY
Consulting Services, Multi-Site Phase II Planning & Management – As project director, Mr. Rhodes collaborated with representatives from Benjamin Beechwood, LLC and served as liaison to the New York City Departments of Environmental Protection (NYCDEP) and Housing Preservation and Development (HPD) effectively advocating for their project goals. He supervised environmental due diligence for the development of the site – measuring 25 city blocks wide – and prepared the scope of work for a multi-site Phase II investigation. The result was incorporated into project documents along with work plans, health and safety plans, special area management, and submitted to NYCDEP and HPD. Once approved, Rhodes coordinated with NYCDEP on extensive geophysical and geo-probe investigations, test pits and soil pile characterizations. He directed the multi-faceted project, with tank removals and NYSDEC spill closures, successfully clearing the way for the area's redevelopment and revitalization.

Town of Babylon - Wyandanch, NY
Phase II Site Investigation & Redevelopment – Mr. Rhodes worked with the Town of Babylon's Community Development Agency and private interests, which resulted in the first new supermarket built in the hamlet of Wyandanch in more than 20 years.

Rhodes developed a soil and groundwater investigation scope that revealed low tetrachloroethane (PCE) levels in the soil and higher levels in the groundwater generated by a dry cleaner formerly located at the site. Rhodes documented the PCE was degrading naturally and only low-impact levels were migrating off-site. To determine the off-site plumes' real and potential effect, PWGC conducted an extensive well survey down-gradient of the property to identify potential receptors of the off-site groundwater contamination. The results prompted the Town of Babylon to connect potentially affected residences to public water, safeguarding the contaminant pathway and clearing the site for redevelopment.

Groundwater Specialists, Inc. - Ronkonkoma, NY
QA/QC for Phase I & II Engineering Oversight Services – To assure quality of the remedial investigation, Mr. Rhodes reviewed the proposed work plan, analyses; progress and activities monitoring for the soil-boring program; monitoring well installation; groundwater sampling; and spot-checking of field records. He further reviewed the third party's data evaluation, risk assessment, draft report, and results' documentation to assure completeness and rationality; and assisted the client with the sealing of the final report upon approval.

Village of Lindenhurst – Lindenhurst, NY
Environmental Site Assessment for Property Redevelopment – Mr. Rhodes acted as liaison between Village of Lindenhurst officials and the Suffolk County Department of Health Services (SCDHS) representatives during the environmental assessment facet of a condemnation proceeding ordered by the Village as part of the site's proposed redevelopment into a court complex. Faced with access issues during the initial Phase I and II, PWGC collected enough evidence for SCDHS to obtain a court order for gaining entry to the property. Working in conjunction with the SCDHS, Mr. Rhodes finalized a scope of work and tasks, divided between PWGC and SCDHS personnel. Information collected in the joint venture documented the site's environmental integrity allowing for formulating the proper remedial action plan.

Krumenacker Florist and Nursery - Amityville, NY
Phase II Investigation & Site Remediation – After reviewing an existing Phase I report, Mr. Rhodes performed a Phase II investigation and site remediation to bring the facility into regulatory compliance and clear the path for future development. The Phase II strategy focused on specific areas of concern that could negatively affect the client in the form of greater expense and unexpected delays. The environmental concerns focused on an existing Class V Underground Injection Control Well, underground gasoline storage tanks, potential environmental assessment format issues and impacted soils beneath the former greenhouse. During the greenhouse demolition, Rhodes met with regulatory agencies to ensure that on-going soil sampling and health and safety measures met regulatory requirements.

New York City "E" Designation and Voluntary Cleanup Program (VCP)
In response to the rezoning activities in New York City, its Office of Environmental Remediation (NYCOER) oversees environmental investigation and remediation at suspect sites prior to redevelopment. Rhodes develops scopes of work for environmental investigation required to redevelop the "E" designated property. He oversees Phase I & II work plans, Health and Safety Plan and Construction Health and Safety Plan, which NYCOER must approve prior to the start of work. To assess the soil quality he coordinates and oversees subsurface investigations, including geophysical surveys and soil and groundwater sampling programs. Based on the findings, Rhodes develops and implements remedial strategies and prepares Remedial Action Plans for NYCOER approval. Rhodes provides technical oversight and support on vapor intrusion mitigation, such as vapor barriers and sub–slab depressurization systems, and is experienced with New York State Department of Health requirements on evaluating soil vapor intrusions.
Current NYCOER VCP projects Mr. Rhodes is overseeing include a nine-story affordable housing development for Phipps Houses and a 12-story residential complex in Harlem, NY for HAP Investment Developers, which also includes an affordable housing component.
Mr. Rhodes is also currently overseeing sites within the NYCOER "E" Program. He is working with Bizzi & Partners Development, LLC, in NYC's SoHo location, which will be redeveloped into a 25-story, mixed-use, high-end residential building. And in Long Island City, Mr. Rhodes is working with the Lightstone Group on the redevelopment of a former taxi site, which is being developed into a 10-story mixed-use facility.

Sive, Paget & Riesel, PC (SPR) - New York, NY
Expert Evaluation & Analysis, Carnegie Hill, New York, NY – The law firm of Sive, Paget & Riesel, PC contracted Rhodes to provide an environmental engineering evaluation to determine the source of petroleum contamination in a commercial corridor. A previous investigation conducted by the New York State Department of Environmental Conservation (NYSDEC) contractor identified SPR's client as the responsible party for an oil spill negatively affecting an adjacent building. He used the evaluation of previous reports, proper closure of a 10,000 gallon underground storage tank (UST), and cross match analysis of fuel oil to compare chemical fingerprints of several sources. PWGC prepared a comprehensive project document to illustrate hydrogeologic cross sections, a study of the bedrock, UST construction details, hydrographs and photos. The comprehensive document ultimately proved favorable for the client.

Baumann Bus site, Francis S. Gabreski Airport – Westhampton Beach, NY
UIC Investigation/Remediation – Through New York State's "Rebuild Now" Program, Mr. Rhodes oversaw the investigation/remediation for Underground Injection Control (UIC) sites on 58 acres at Suffolk County's Francis S. Grabreski Airport, a 1,500 acre former US Air Force base in Westhampton. A 2004 site investigation revealed elevated levels of semi-volatile organic compounds. Through analysis of historical maps and geophysical methods, a remedial work plan was prepared for the site to properly locate, characterize and close more than 100 UIC sites. Mr. Rhodes provided technical support to verify protocols on local, state and federal levels, corresponded with the County to negotiate the scope of work, provided quality assurance and verified that all work was done in accordance associated guidelines permitting site redevelopment. PWGC's

efforts included a supplemental remedial investigation, final remedial design and preparation of a site management plan and post remedial monitoring, which is allowing for the development of the Hampton Business District business park by Plainview, NY-based Rechler Equities.

In addition to be UIC work, Mr. Rhodes oversaw remediation efforts at Gabreski associated with the Suffolk County Department of Health Services Brownfield Program, which is administered by PWGC. Other projects successfully completed by Mr. Rhodes and PWGC, or nearing completion, under the Brownfield Program include the Blue Point Laundry site in Blue Point, the Canine Kennel at Gabreski Airport and the Ronkonkoma Wallpaper site in Ronkonkoma.

Jain Center of America - Lake Success, NY
Sub-Surface Investigation Review - Mr. Rhodes reviewed a subsurface investigation of a former gasoline station. While adhering to Village of Lake Success requirements to address past environmental problems at the site, he supported client efforts to obtain construction approval for the property. As part of the SEQRA review process, the Village required the client perform a subsurface investigation. After a review of Nassau County records, Mr. Rhodes discovered an open UIC file resulting from an acceptable endpoint result having not been obtained. He designed a subsurface investigation to address the UIC issue, the former gasoline spill, a sanitary system at the site, and other environmental concerns resulting in an expedited review process.

Penetrex Processing, Glenwood Landing - New York
Subsurface Investigation, NYS Class II Inactive Hazardous Waste Site – As project principal, Mr. Rhodes lead the investigation of an inactive hazardous waste site in accordance with a New York State Department of Environmental Conservation (NYSDEC)-approved work plan, which included sub-slab vapor and indoor air sampling and a sub-slab depressurization system. In addition, he oversaw the preparation of a feasibility study for the site that NYSDEC used to prepare a proposed remedial action plan, which lead to a Record of Decision.

Allstate Insurance Services - Hauppauge, NY
Spill Site Project Management – Mr. Rhodes oversees multiple residential fuel oil spills a year in New York City, Westchester, Nassau, and Suffolk Counties and Upstate New York on behalf of Allstate Insurance Services. He directs PWGC's Allstate team in providing technical oversight to document that spill remediation performed by the homeowner's contractor sufficiently addresses the contamination present and to achieve closure by the New York State Department of Environmental Conservation (NYSDEC). He ensures professional representation at all levels, and coordination with the NYSDEC and the environmental contractor. PWGC addresses all spills in a timely fashion, effectively reducing or eliminating Allstate's liability in such cases.

Sub-Surface Investigation Management & Client Representation Texaco Station, NY – Mr. Rhodes reviewed and supervised a sub-surface investigation to determine whether two underground storage tanks at a Texaco gas station were the potential source of soil and groundwater contamination under remediation at the time. He reviewed existing site data and supervised a subsurface investigation to determine the responsible party. The investigation showed the two storage tanks were not the source of contamination and that the current remediation system appeared ineffective.

Water Authority of Great Neck North - Great Neck NY
Groundwater Study – As project manager, Mr. Rhodes directed multiple studies using groundwater models in conjunction with the Nassau County Department of Public Works, to evaluate the pumpage of Great Neck's public water supply wells for potential for saltwater intrusion to determine the most favorable locations for a proposed well field. Rhodes used the results to prepare an aquifer management plan (AMP) for the authority that described short-term and long-term pumping scenarios. By following the AMP, the Authority has indicated the advancement of multiple saltwater wedges has slowed and/or ceased. He also prepared the water supply application and engineering report for the installation of new wells located off of the Great Neck Peninsula, which was part of the Authority's long term plans contained in the AMP.

John deCuevas, et al. v. East Hampton Golf Club, LLC, et al – East Hampton, NY
Expert Evaluation – Mr. Rhodes conducted an investigation to assess the potential environmental impact of a golf course development on the groundwater resource and to provide testimony on behalf of John DeCuevas. He researched and evaluated the hydrogeologic characteristic beneath the site, local groundwater quality concerns and potential chemical usage of the future golf course. The evaluation identified the potential for groundwater impact and the threat to nearby private drinking water wells from the proposed development. The findings prompted the two parties to agree on the development of a groundwater monitoring program to protect the private wells. Further, the golf course implemented an Integrated Pest Management program to control chemical use at the site. After developing the monitoring program that includes two wells required by Suffolk County Department of Health Services (SCDHS), Rhodes reviewed the data to determine if impacts had occurred and submitted his findings with SCDHS for incorporation in the county's database.

Fong and Wong, PC - New York, NY
New Best Cleaners & Tailors, Inc., Centereach, NY, Environmental Investigation & Remediation – He provided professional consulting services and expert testimony for the attorney who represented the site lessee in litigation with the property owner over the environmental condition and a lease buy-out agreement. He oversaw the soil and groundwater study to evaluate potential impacts and determine multiple sources of contamination, and remediation of sources associated with the dry cleaners, and participated in an on-site meeting with the presiding judge to demonstrate the conditions at the site first hand.

Minmilt Realty - East Farmingdale, NY
Remedial Project Management - As field manager, Mr. Rhodes coordinated a full remedial investigation and provided technical direction during the installation of a deep monitoring well - 180 feet - and defined the vertical extent of contamination and

hydrophobic dyes to determine the movement of dense non-aqueous phase liquids (DNAPL) using groundwater quality screening. He prepared the RI/FS report and oversaw the operation and maintenance of the system.

Computer Circuits - Hauppauge, NY
Remedial Investigation and Feasibility Study (RI/FS) – Mr. Rhodes was a project director for a characterization of a contamination's nature and extent at the former Computer Circuits industrial site, a US Environmental Protection Agency Superfund Site. He coordinated the use of multiple geophysical techniques to determine if unknown buried objects such as drums, tanks, or leaching structures existed. Techniques employed during the course of the project were interior/exterior soil borings, multiple drilling/probe methods, EnCore™ sampler, to preserve VOC sample integrity, and off-site groundwater vertical profile sampling to depths in excess of 200 feet below grade. PWGC utilized an on-site laboratory grade gas chromatograph to screen both soil and groundwater samples and followed New York State Department of Environmental Conservation procedures during the investigation.

Brookhaven National Laboratory - Upton, NY
Major Cesspools Closure – Mr. Rhodes coordinated sampling efforts to comply with the EPA and States regulated UIC program for the closure. He monitored closely the full ASP-B protocol and, after analysis of laboratory data, submitted reports to the client.

Village of Sands Point, NY
Hydrogeologic Investigation – To assess the impact of proposed irrigation wells on the surrounding area, Mr. Rhodes determined the potential screen zones of the wells, considered potentially vulnerable to salt water intrusion. In addition, he assessed the impact on nearby public supply wells operated by the Village.

PUBLICATIONS & PRESENTATIONS

The Significance of the New Brownfields Legislation (NY Real Estate Journal, 03/04; Business Industry Connection (BIC), 03/04 issue)

Brownfields: Timing is Everything (Empire State Report, 09/2004)

Watershed Strategy & Management as a Most Valuable Resource (Watershed Conference, 1996)

Watershed Management for a Limited Coastal Aquifer System (North American Water and Environment Congress '96)

Kaitlyn Crosby • PROJECT HYDRO/ES



PROFESSIONAL EXPERIENCE

PWGC: 5 years

AREAS OF EXPERTISE

Water, Soil, Air Sampling
Field Work (Protocol, Oversight, Documentation)
Site Investigation/Analysis
Health & Safety Monitoring
Soil/Groundwater Investigations, Analysis, Sampling
(Manual; Direct Push Technology Techniques)
UST Remediation Hazardous Waste Site Investigation/Cleanup
Underground Injection Well Monitoring

EDUCATION & TRAINING/CERTIFICATION

BA, Environmental Studies (Sustainability Studies; Public Policy & Human Impact), Stony Brook University
OSHA HAZWOPER 40-hr; OSHA HAZWOPER 8-hr refresher
OSHA 10-Hour Construction

PROFILE

Kaitlyn Crosby earned her Bachelor of Arts degree in Environmental Studies with a Minor in Sustainability Studies concentrating on Public Policy & Human Impact from Stony Brook University. She proved herself in the realm of hydrogeology, soil sampling and field studies and is continuously improving her skills as a field inspector in the areas of civil, structural, and environmental engineering. She has an excellent record in timely completion and maintenance of project coordination, monitoring, and document preparation, while successfully maintaining communication between clients, government agencies, and other parties involved.

NOTABLE PROJECTS

Computer Circuits, Hauppauge, New York

Ms. Crosby performed groundwater and air sampling in accordance with the USEPA-approved work plan for the investigation at this Federal Superfund site. The investigation consisted of soil, groundwater, and air sampling, and the installation and operation of a soil/vapor extraction system. Ms. Crosby performed sampling activities following the QA/QC procedures detailed in the work plan.

GTJ-Group/Green Bus Lines, Inc. - Queens/Brooklyn, NY

Hydrogeology/Environmental Services - Services range from Site Remediation Management & Baseline Environmental Report Preparation (Project Coordination, Oversight and Sample Collection) at large bus facilities. Ms. Crosby conducted site/facility investigations and provided, on an accelerated time schedule, site investigations, remedial action planning and design for dissolved and free phase groundwater contamination treatment systems.

83 Walker Street, Manhattan, New York

New York City Office of Environmental Remediation (NYCOER) Redevelopment Project – Ms. Crosby provided field oversight services to an "E" Designation site at 83 Walker Street. Her responsibilities included, but were not limited to, soil sampling, groundwater sampling, soil vapor samplings, air monitoring for dust and VOCs during earthwork, and inspection of vapor barrier installations. Ms. Crosby documented daily soil removal and noted any soils that may be contaminated. In addition to these services, she completed daily logs, communicated with the NYCOER, clients, government agencies and other parties involved and ensured proper handling and distribution of the soil samples.

Carco Builders Corp., Freeport, NY

Underground Injection Control (UIC) Remediation - Ms. Crosby performs endpoint sampling of storm drains and sanitary systems, coordinates and performs sampling in conjunction with the Suffolk County Department of Health Services (SCDHS) and Nassau County Department of Health (NCDH), and ensures proper soil and sediment removal.

North Eight NY LLC, Brooklyn, NY

NYCOER "E" Designation Services - Ms. Crosby provided field oversight services to an "E" Designation site at 207 North 8th Street. Her responsibilities included, but were not limited to, soil sampling, groundwater sampling, water level measurement and soil vapor samplings. She conducted site inspections to identify AOCs and physical obstructions and provided oversight on the installation of five soil borings. Ms. Crosby documented daily soil removal and noted

any soils and groundwater that may be contaminated. In addition to these services, she completed daily logs, communicated with the NYCOER, clients, government agencies and other parties involved and ensured proper handling and distribution of the soil samples.

Paul K. Boyce, PE, PG • CEO/PRESIDENT



PROFESSIONAL EXPERIENCE
PWGC: 25 years

AREAS OF EXPERTISE
Water Resource/Supply Design
Civil Site Design
Remedial System Design
Geothermal Systems
Groundwater Hydrology
Groundwater Modeling

EDUCATION & TRAINING/CERTIFICATION
MS, Environmental Engineering, Polytechnic University, NY (now NYU)
BS, Civil Engineering, SUNY Buffalo, NY
Professional Engineer, NY, PA
New York State Professional Geologist
OSHA HAZWOPER 40-hr (29CRR 1910.120)

AFFILIATIONS
American Society of Civil Engineers (ASCE)
NYS Society of Professional Engineers
American Council of Engineering Companies (ACEC)
Long Island Professional Geologists Association
American Water Works Association (AWWA)
National Groundwater Association (NGWA)

PROFILE
An environmental engineering professional Mr. Boyce has amassed an impressive portfolio of successful project in the New York Metropolitan region. He is an expert at providing public and private clients with targeted analyses, designs, modeling services, investigations, master planning development, construction oversight, regulatory, and sustainability consulting.

For more than 25 years at PWGC, Mr. Boyce has been immersed in some of the most innovative and successful environmental engineering projects on Long Island, playing key roles in developments that have improved the region's economy and environment. Whether using cutting-edge geothermal technology to assist Amneal Pharmaceuticals in the development of its base of operations in Yaphank or conducting detailed groundwater modeling at Brookhaven National Laboratory, his client expertise covers a wide spectrum of applications including targeted design and analysis, groundwater modeling, environmental investigations, construction oversight, and sustainability consulting.

Overall, Mr. Boyce develops project-specific civil and environmental engineering designs, implementation strategies and project management plans. He is an expert on the design and construction oversight related to the application of geothermal technologies. He assists clients with selecting the appropriate system and location, feasibility assessment, design preparation, system development and startup.

In his tenure at PWGC, Mr. Boyce has earned an industry-recognized reputation for his ability to assess project parameters and design and developing economical environmental engineering solutions that meet the stringent demands of our clients.

NOTABLE PROJECTS

Mr. Boyce's responsibilities with regards to lead sampling and analysis include interpretation of regulatory requirements and federal action levels as they pertain to lead in potable systems, investigations into causes for high lead concentrations in drinking water, recommending solutions to remedy high lead levels, cost estimates for lead treatment strategies, designs for remedial solutions involving flushing, plumbing material replacements and chemical treatment and water chemistry modeling. He provided coordination and supervision of field teams performing lead sample collection. Mr. Boyce was the regulatory agency liaison for all parties involved.

NYC School Construction Authority (SCA)
Discolored Water Investigations and Remedies at Numerous Schools across New York City – Notable projects included: 229K, 163K, R062, Q316. Mr. Boyce's responsibilities included aiding STV and SCA in investigating causes, overseeing field investigation services, water quality sampling, metallurgy of pipe sections, water quality/chemistry analyses, recommending remedies, report preparation, oversight of remedy implementation and follow-up samplings.
Disinfection Oversight – Mr. Boyce's responsibilities included overseeing field teams who were responsible for witnessing disinfection of potable water systems at new or renovated school buildings.
Disinfection Specification Update – Mr. Boyce was responsible for updating the SCA's standard disinfection specification for potable water systems.
Brooklyn Army Terminal Pre-K Site – Incoming potable water into the leased space was experiencing bacteriological issues. Mr. Boyce was responsible for investigating the cause and designing a remedy which consisted of new piping system and filtration units.
Lead Sampling – Mr. Boyce served as a lead consultant to SCA for a major sampling program of all schools in the New York City school system. His responsibilities included assembling lead sampling teams, coordinating and scheduling sampling events with STV and SCA, coordinating with analytical laboratories, review sampling results and consulting with SCA regarding results and potential remedies.

Diocese of Rockville Center
Lead Sampling – Mr. Boyce was responsible for overall project management and coordination of sampling for lead in the potable drinking water systems at more than 25 Long Island Catholic schools in Nassau and Suffolk Counties. His responsibilities included coordinating field sampling teams, working directly with individual school staffs, reviewing lead results and recommending remedies. Once a remedy was implemented, Mr. Boyce oversaw follow-up sampling. Mr. Boyce is the primary point of contact for Senior Diocese management staff.

Northwell Health – Long Island Jewish Medical Center (LIJMC), New Hyde Park, NY
Environmental Policy & Procedures for the Prevention of Legionella Contamination
Mr. Boyce's responsibilities for this project included researching local, state, and federal legionella standards and guidelines and updating a pre-existing environmental policy and procedures manual for the prevention of legionella contamination in LIJMC healthcare facilities. Mr. Boyce coordinated with the New York State Health Department to determine the present status of legionella updates on the state level. Following extensive research on revisions undertaken to various guidelines and standards pertinent to legionella, Mr. Boyce updated the routine legionella sampling program, disinfection procedures, maintenance and long-term control measures to prevent legionellae contamination and the requirements for the development of a water safety management program.

Water Resource Management

Ross School, East Hampton, NY
Master Planning & Campus Design - Mr. Boyce provided civil engineering design services to develop a master plan for the private school campus, which was to be a "one of a kind," transforming the school into a state-of-the-art learning institution, situated in a rural, wooded groundwater recharge area.
Civil Engineering Services - Civil engineering and consulting were provided for grading, drainage, utility layout, roadways, parking, site lighting, athletic playing fields, irrigation, water supply, sanitary, wastewater collection, and open loop geothermal heating/cooling water systems. Throughout the project, Mr. Boyce collaborated with other project consultants, foremost planners, architects, landscape architects, MEP engineers, surveyors, contractors, the construction manager and the school administration. He oversaw and participated in the conceptualization and preliminary design of the campus' proposed layout, which included eco-friendly engineering designs consulting/development and integration of civil engineering design aspects with other important features such as academic programs, architecture, landscaping and pedestrian walkways.
Environmental Engineering Services - The campus was to be as green as possible utilizing available eco-friendly technologies for the most environmentally sensitive and appealing design. The campus' sensitive environmental location as well as sanitary density issues required a sewage treatment plant. Mr. Boyce investigated and evaluated different sewage treatment technologies capable to meet the school's projected needs functionally, aesthetically and academically. Mr. Boyce took into consideration some sustainability goals and follow regulatory requirements.
Environmental Consulting/Conceptual Design Services After researching the latest sewage treatment technologies, Mr. Boyce recommended to the master planning team and school administration a wastewater treatment system that naturally treats sewage and industrial waste to re-use quality that met the Master Plan goals: aesthetics, economic/environmental advantages and well below regulatory discharge standards. The panel accepted his recommendation and he created conceptualized layouts, sited for possible plant locations and designed a preliminary ecologically engineered sewage collection system.
Geothermal Well System Design – Mr. Boyce managed the site assessment, design, construction oversight and preparation of O&M manuals for the systems and conducted a feasibility study of using open-loop geothermal systems to heat and cool two of the school's most prominent buildings - The Center for Well Being (Bldg. 5) and the Media Pavilion (Bldg. 2). He researched local hydrogeological and groundwater quality conditions and analyzed the effects of required flow rates on a nearby Suffolk County Water Authority (SCWA) well field. Mr. Boyce employed Groundwater Vistas by ESI, to create a detailed 3-dimensional model for the area. His analysis illustrated the potential effects of supply and recharge wells on (1) each other, (2) nearby neighboring shallow wells, (3) the SCWA well field, and (4) the local water table (The model also took into account of the local groundwater divide). Once he had demonstrated that operating two separate open-loop geothermal well systems in close proximity would not have an impact, he prepared the engineering report for the NYS Department of Environmental Conservation, along with the appropriate Long Island Well permit applications for approval.

Northwell Health – Glen Cove Hospital, Glen Cove, NY

Northwell Health – Glen Cove Hospital, Glen Cove, NY, Geothermal Wells Project – As project manager, Mr. Boyce prepared the feasibility study, well permits, construction documents, oversaw the construction and fieldwork for the installation of a 400 GPM open-loop groundwater heat pump system. Before design, Mr. Boyce conducted the study to assess the feasibility of augmenting the AC's geothermal well system; he investigated size and location options for new wells and prepared construction cost estimates based on minimizing potential conflicts with existing site constraints and the likelihood of regulatory agency approval. He determined that expansion to the existing system would be feasible based on cost, local hydrogeology, and his modeling results. He advised the client that construction would cause significant disruptions to the hospital's daily operations. In accordance with NYSDEC guidelines, he investigated the potential effects of the proposed project on a nearby inactive hazardous waste site, obtained baseline water quality data, estimated aquifer characteristics to refine and calibrate the model and drafted a design and construction plan of a test and monitoring well to determine local geologic conditions. As liaison between NSUH, the NYSDEC, and the local regulatory agencies, Mr. Boyce established that a scaled-down, relocated system would have negligible effects on the hazardous waste site, and consequently, obtained approval for the proposed construction. NSUH selected Mr. Boyce to design, plan, and oversee the construction of the new system, which involved developing the design and strategy for a supply and recharge well system with inter-connecting process piping, detailed hydraulic analyses, sizing the various system components, and coordination with other project consultants on the installation of piping and process equipment.

Water Supply & Treatment

Suffolk County Department of Public Works, Yaphank, NY

Timber Point Country Club, Great River, Water Supply System & Irrigation Well Upgrades - Mr. Boyce directed the well's condition assessment, including pump test, to determine capacity and water quality and prepared specifications/plans to upgrade supply well with new pump and motor. Further, he designed new piping configurations to integrate an irrigation well with distribution and cross-connection to the Suffolk County Water Authority and specified new variable frequency drive for well pump motor.

West Sayville Golf Course, Sanitary System Improvements – Mr. Boyce oversaw construction phases through completion including, supervised design, development of permitting, bidding and administrative buildings sub-surface sanitary disposal system.

Peconic Dunes Park, Peconic, NY, Water Distribution System Improvements – Mr. Boyce supervised design/development of permitting, bidding, and construction documents to upgrade the existing water distribution system's components including backflow prevention devices water mains/meters, hydrants, and internal plumbing. Further, he oversaw construction phase services through to completion.

BOMARC Police Firing Range Westhampton, Drainage Improvements - Mr. Boyce directed design/development of permitting, bidding, and construction documents for drainage conditions improvements (i.e. stormwater collection/conveyance systems, new recharge system), and oversaw construction phase services through to completion.

Suffolk County Fire Academy, Yaphank, Water Supply Well Improvements - Mr. Boyce supervised design/development of bidding and construction documents for the re-circulated supply system. This included: physical/chemical rehabilitation, electrical service upgrades, a new motor starter, and replacement of a diesel driven booster pump with an electrically operated one, as well as the deep well vertical turbine pump and motor with a new submersible pumping unit. He managed construction phase services (administration, observation) to project completion.

SUNY Stony Brook, Sewer District 21, Groundwater Modeling Study, Stony Brook NY - Mr. Boyce performed a 3-d numerical groundwater modeling to estimate flow path and travel time of sewage treatment plant effluent from recharge basins to the Long Island Sound and prepared an engineering report documenting findings and modeling results.

Water Authority of Great Neck North, Nassau County, NY

Weybridge Road Clearwell Design - Mr. Boyce prepared a design for a new air stripper clearwell, upgraded the booster pump, piping, controls modifications, coordinated with NCDOH, and performed cost estimates. The design is completed and NCDOH has approved it, however, funding constraints have put the project on hold.

SCADA System Design - Mr. Boyce prepared a design for a new Supervisory Control and Data Acquisition System. He prepared bidding and construction documents, providing construction administration and observation services, and cost estimates.

Emergency Water Main Replacement, Berkshire Road - Mr. Boyce prepared design, construction and bidding documents for emergency water main replacements, expedited NCDOH review and approval, and provided PE certification services.

Air Stripper Cap at Watermill Lane – Mr. Boyce coordinated with contractor and WAGNN regarding design and sizing of appropriate air exit cap atop existing air stripper at Watermill Lane treatment plant.

Valve Book Review/Updates – Mr. Boyce updated valve location sketches as new valves are being installed in the distribution system.

Municipal Supply Well Design, Well #14 – Mr. Boyce oversaw the design services for the new 1,400 gpm municipal supply well. The design included an engineering report for NYSDEC and NCDOH review/approval, preparation of plans and specifications for a new well, associated piping, well house, electric, controls, instrumentation, chemical treatment, safeties, etc. Project is just underway as of Sept 2007. Construction phase services will also be provided.

Weybridge Road Ground Storage Tank Replacement – Mr. Boyce lead the project team charged with designing a new 500,000-gallon steel ground storage tank to replace a deteriorated and dilapidated existing 400,000-gallon ground storage tank. The team prepared bidding/construction documents, inclusive plans and specifications, obtained NCDOH approval, provided construction administration and oversight services.

General Consulting Services – Mr. Boyce attended Board of Directors meetings to present monthly engineering report, assist with hydrogeological issues, contaminant fate and transport concerns, well maintenance, water main rehabilitation, etc.

Hampton Bays Water District, Suffolk, NY

Well Field Construction & Integration – Mr. Boyce prepared the structural, mechanical, and electrical designs for a new well field including two pump stations. In addition to construction plans and specifications, Mr. Boyce oversaw the integration of a new well field with an existing distribution system via hydraulic analyses and guided the client through the regulatory agency review and approval process. In a subsequent project phase, he partook in creating the layout of several residential water main projects, for which he analyzed the proposed water main layouts and prepared conceptual designs based on Health Department and ISO requirements.

Caustic Feed Systems Design - Mr. Boyce was responsible for the design of caustic feed systems at all eight District supply wells. He prepared existing conditions drawings by conducting field visits to obtain the necessary information. He then designed caustic feed systems consisting of double-walled underground storage tanks, piping, metering pumps, safety interlocks, controls, alarms and injection equipment to raise the ambient pH of the groundwater withdrawn from the shallow aquifer system to between seven and eight and a half. He was responsible for preparing plans and specifications, obtaining Health Department approval, and then overseeing the construction administration and observation aspects of the project.

Isolated Pressure Zone Design - Mr. Boyce was responsible for designing an isolated pressure zone in an area that was experiencing chronic low-pressure conditions within the District's distribution system. He worked with existing distribution system maps and survey data to identify the boundaries of the proposed zone, he worked with available hydraulic data to estimate pressure conditions and developed a planned approach on how to isolate the zone and create a booster pumping station to raise pressures within the zone to acceptable levels. Mr. Boyce was responsible for preparing the project plans and specifications that included a new packaged booster pumping station, water main and valve work, electrical service and site work. The SCDHS approved the plans and the pressure zones were constructed closely to his design and construction cost estimate.

Good Samaritan Hospital, West Islip NY

Well Turbidity Study – After review of existing water quality data, Mr. Boyce recommended sampling and analyses for additional parameters. He applied a water quality model, using the existing raw water quality data. To achieve optimal water quality pH-level, hardness, and alkalinity, he performed trial and error solutions using a numerical model. Different treatment chemicals were included in the model in various combinations or by themselves. Concluding modeling efforts led to a realistic chemical concentration.

Copper & Lead Desktop Study – The results of the study Mr. Boyce performed served to identify the possible cases for turbid water condition and proposing alternative options for corrective actions to restore acceptable water quality. He presented each alternative for evaluation and comparison to determine most advantageous choice, based on potential for success, technical complexity, and cost. In addition, he prepared a treatment specification and coordinated with an experienced well driller, resulting in a successful chemical treatment, and restoration of the water quality to acceptable conditions.

Town of Oyster Bay, Syosset, NY

Potable Water Supply System Upgrade Design & Compliance Management Services – As Project Manager, Mr. Boyce coordinates inspection and assessment services for the town's Tobay Beach Park & Marina potable water supply system. PWGC focuses on the water supply system's status of compliance with NYSDOH, NCDOH, 10-State Standards, and provides feasible engineering designs to in response to the town's objectives: Safe, potable water for Tobay Beach patrons, in an economically sound fashion. Mr. Boyce managed the authoring of a feasibility report and selected/recommended minimum corrections and system upgrades. In addition, he prepared the design of a dry-briquette calcium hypochlorite chlorination system and other upgrades at Well House 3 of the Tobay Beach Park & Marina. To date, he continues to provide engineering services and design specifications for wellhead improvements. He also directs PWGC water quality monitoring and assessment services at the beach to determine compliance with local and state health department water quality and equipment guidance.

Civil Site

Three Mile Harbor Boat Yard, East Hampton, NY

Site Planning Analysis – After evaluating site conditions, Mr. Boyce recommended feasible improvements to enhance an existing boat yard facility. He investigated local zoning/building codes, sized/located sanitary facilities, sized/designed layout and arrangement of parking facilities, sized/located/orientated a new proposed structure to house a marine shop, offices, storage, and industrial space. He effectively addressed critical issues such as the site's location in a harbor protection area and no public water access, which put severe constraints on sizing and locating the sanitary facilities. He prepared plans and reports delineating suitable site alternatives and requirements for implementation in compliance with regulatory agencies and utility companies.

Inlet Seafood, East Hampton, NY

Site Plan Application - As senior engineer, Mr. Boyce designed and coordinated the preparation of site-plan application drawings for the commercial/industrial fishing marina looking to expand the site from a commercial to a multiple use area that included retail, restaurant, and commercial fishing. He managed civil/site concerns, which included grading, drainage, sanitary, water supply, utilities, parking, traffic controls, site lighting, and building locations/elevations. Mr. Boyce worked with the owners and other project consultants to conceptualize and plan the site layout for optimum use and compliance with local zoning and building codes. In addition, he prepared site-plan application drawings for the Town Planning Board and local regulatory

agencies. He supervised development of designs and bidding/construction documents for new water mains/services/flow meters, hydrants, and drinking water fountains. Mr. Boyce oversaw construction, and supervised wetlands delineation and permitting with the NYSDEC through to project completion.

Jay Construction Corp, NY
Pile Foundation Designs for Residential Homes - Mr. Boyce was responsible for designing foundations for four residential homes in Patchogue, New York. The design included investigating existing soil conditions, reviewing architectural plans, sizing piles based on soil conditions, locating piles based on architectural layout, determining number of piles based on loads including self-weight, building dead, live, snow and wind load, and worst-case combination of loads based on building code. He created designs for reinforced concrete pile caps in accordance with ACI requirements and created foundation walls to serve as grade beams between pile caps. In addition, Mr. Boyce prepared construction documents including plans and specifications and acted as the primary client contact throughout the project.

Times Square Construction, New York, NY
Geotechnical Report for 47 East 34th Street Building Construction – Mr. Boyce oversaw a rock core boring program, characterized rock core samples and developed a geotechnical report based upon findings of the rock core boring program. He provided foundation recommendations for a new 38 story residential building being erected upon Manhattan schist on the east side of midtown Manhattan. Mr. Boyce assisted with the rock anchor design and specification. He supervised and managed field observation services for rock anchor testing. Supervised and managed the September 2007 design and development of a foundation waterproofing system.

Storm Water Management

Benjamin Beechwood, LLC, Arverne Urban Renewal Area (URA), Far Rockaway, NY
Design/Engineering Management Services, Stormwater Collection & Conveyance System - Mr. Boyce managed the design and siting of a stormwater collection and conveyance system for an 80+ acre development along the south shore of Queens County. He coordinated catch basins locating, grading design, sizing interconnected piping networks and tie-ins with the local NYC storm sewer system. Mr. Boyce was also responsible for incorporating BMP's in the system design.
Stormwater Quality Impact Assessment on Local Surface Water Body - Mr. Boyce was responsible for determining stormwater roadway run-off concentrations for TPH's, suspended solids, metals, coli forms, pH, and dissolved oxygen. To estimate the influence of these parameters on the nearby canal basins into which they were to be discharged, he employed chemical and mathematical relations using chemical properties and mass balances based on flow rates and tidal flushing volumes to estimate potential effects. Subsequently, he assisted in preparing the stormwater portion section of a Draft Environmental Impact Statement.

NYSDOT, Kensico Reservoir Route, Westchester, NY
120 Expansion Stormwater Management System Stormwater Quality Pre-Construction Baseline Assessment – Mr. Boyce directed the roadway run-off sampling of 15 storm events and 5 outfalls along the Reservoir. He oversaw installation of automated sampling equipment to monitor weather conditions, sampling events, and system/statistical data analyses for a stormwater-runoff quality report.

Allied Aviation Services, LaGuardia Airport, NY
Storm water Sediment & pH Control Investigation, LaGuardia Airport, Queens, NY – Mr. Boyce was responsible for reviewing and investigating an ongoing problem of storm water discharge to a surface water body with a too high solids content level. Storm water runoff collected at the fuel tank farm for LGA is passed through a treatment system to remove oils and organic contaminants. Under severe rainfall events, the treated storm water effluent had been discharged to the adjacent harbor with unusually high amounts of suspended solids, which were temporary violations of the facility's State Pollutant Discharge Elimination System permit. To find a cost-effective solution for the continuing problem, he evaluated various alternatives from in line cartridge filters, to settling tanks, to storm drain separators. Aside from cost, he considered other restrictions, such as limited space for installation, maintenance, durability, and reliability. Mr. Boyce studied peak hydrologic events and recommended the most efficient and effective treatment option for the owner to implement. Elevated pH of the discharged treated storm water effluent presented an unexpected, and separate, water quality issue. In addition, he was responsible for investigating the cause of the problem and recommending a course of corrective action.

AIL Systems Inc, Deer Park, NY
Recharge Basin Size Analysis – To assess the feasibility of reclaiming land used for recharge purposes, to sell or alter its land use, Mr. Boyce analyzed the industrial facility's existing cooling water recharge system. His analysis included an investigation of the facility's hydrological and drainage characteristics, and the existing storm water handling facilities' capability to accommodate various storm events. Mr. Boyce reviewed local building codes to make sure any proposed alterations could handle the minimum required storm events. He investigated the cooling water discharge rates to the recharge basins, to determine how much of the existing basins were required to handle the cooling water. With his report, AIL Systems was able to effectively evaluate its real estate options.

Groundwater Remediation

Brookhaven National Laboratory, Upton, NY

Engineering Services for the Glass Holes & Animal Chemical Pits CERCLA Remedial Excavation - Mr. Boyce prepared the excavation plan and design drawings for a remedial excavation of over 50 individual waste pits at the client's site. He managed the waste pits' initial delineation, oversaw the geophysical survey using electromagnetic survey equipment, and prepared the excavation plan detailing technical guidelines for the hazardous waste site's remediation. The plan provided direction for the removal/recovery of organic, inorganic, biological and radioactive buried wastes, as well as explosive, reactive, and corrosive materials. His engineering drawings detailed excavation layout, work/stockpiling areas, grading, drainage, haul routes, utilities, and site restoration. He acted as a field engineer during the field operations, oversaw excavation/waste removal, stockpiling, characterization and segregation of excavated materials, and monitored daily logistics for field crews.

Mercury-Contaminated Soil Treatment Alternatives Evaluation Report - Mr. Boyce's report evaluated various appropriate remedial treatment technologies, including visual and technical system descriptions, a comparison study of each alternative's technology, treatment process efficiency in the types, quantities and concentrations of mercury present in the soil, as well as the overall economics and cost effectiveness. He called attention to the presence of other contaminants such as organics and radioactive parameters and studied the available technologies. He also presented recommendations for a soil stabilization process and options for the remediated soil's disposal.

OUIII Western South Boundary Remedial System Design - Mr. Boyce was responsible for assisting in selecting the appropriate remedial technology for a groundwater pump treatment system for a volatile organic contaminant plume clean up. He suggested appropriate technologies and reviewed them from a feasibility standpoint. He recommended the most applicable one, based on effectiveness, available capital and O&M costs, implementation, reliability, operation, and maintenance. Mr. Boyce was then responsible for preparing a portion of the design of the recommended treatment technology, which included sizing and optimizing the primary treatment equipment (4-foot diameter x 35-foot tall air stripping tower).

Ash Pits Capping –Mr. Boyce was responsible for preparing the design of a capping system for an area formerly used as incinerator ash repository. He conducted the initial investigation to assess the area's extent by reviewing old aerial photographs, digging test pits, and conducting interviews with BNL personnel. Once he had delineated and surveyed the area, Mr. Boyce designed a soil-cap cover system in accordance with NYSDEC regulations to prevent surface exposure to ash and to minimize rainfall infiltration through the area. He was responsible for repairing design/construction drawings that included grading, drainage, slope stabilization details, limits of clearing and coverage and site restoration work such as fencing, roadways, signage, etc.

Minmilt Realty, Farmingdale NY

Groundwater & Soil Remediation Systems Design - Mr. Boyce evaluated, selected and designed appropriate remediation systems to cleanup a large industrial solvent plume that had contaminated nearby soil and groundwater. The chosen groundwater remediation consisted of an air-stripping tower, granular activated carbon (GAC) filters for off gas treatment and recharge structures; the soil treatment system was a soil-vapor extraction system (SVE) and GAC filters. Mr. Boyce's design responsibilities included sizing and selecting remediation system equipment, structural, mechanical, electrical, hydraulic, well, controls and instrumentation design. Mr. Boyce also performed three-dimensional numerical groundwater modeling to evaluate the effectiveness of the proposed groundwater remediation system and to size and locate a series of deep and shallow wells. Mr. Boyce prepared plans and specifications, a technical report for the NYSDEC detailing the choice of the specific components overall design process. He was involved in the construction administration and oversight of the remediation systems and was responsible for reviewing and approving shop drawings and performing routine construction observation services.

Brentwood Water District (BWD) Air Stripper, Plant No. 2, Brentwood, NY

Treatment Alternatives Study & System Design – As Project Engineer, Mr. Boyce conducted the treatment alternatives study for a VOC contaminated well field at BWD. The study ultimately recommended air stripping as the most effective and cost efficient technology to treat groundwater withdrawn from Plant No. 2. Upon the study's completion and acceptance, he prepared the design for the treatment system, which encompassed mechanical, electrical, structural, hydraulic, architectural and site components. Specific design components included an 11′ diameter by 30′ packed bed depth aluminum air stripper, a 100,000-gallon ground storage clearwell, and booster pumps. Specific design aspects include restaging an existing well pump, electrical service upgrade, a new natural gas engine generator set, stripping tower enclosure and three existing pumping stations refinish. Mr. Boyce prepared the plans and specifications, which were approved by the SCDHS and ultimately used to construct the air stripper and related facilities. Following the design phase of the project Mr. Boyce was responsible for providing construction administration and observation services.

Nitrate Study & Analysis - Mr. Boyce prepared a statistical analysis to compare increasing groundwater nitrate concentrations with pumpage from Plant No. 2 of the BWD. The analysis involved compiling water quality data to measure levels in three wells of Plant No. 2, reviewing the data, and using statistical methods to forecast the water quality of pumpage from the aquifers utilized by the BWD. He superimposed pumpage data from Plant No. 2 over his water quality findings to create a trend analysis, which showed nitrate concentrations fluctuated in the different wells based on pumpage. Mr. Boyce recommended available treatment technologies which eventually would be necessary to slow the deterioration rate of water quality caused by nitrate level changes. He advised that, based on the statistical analysis, establishing pumping sequences would slow the rate of water quality deterioration. His report also included estimates for when treatment of nitrate will become necessary and appropriate treatment technologies available.

Roanoke Sand & Gravel, Mid Island, NY
Sand Mining Design and Permitting – As the primary client contact, Mr. Boyce oversaw the application submittal to the Town of Brookhaven and NYSDEC to expand mining operations at an existing sand and gravel mine. The scope of services included assembling engineering drawings for proposed mining operations by excavating deeper through the bottom; preparing an engineering report addressing environmental, geotechnical and hydrogeological issues; preparing volume estimates to determine how much more sand and gravel could be mined by expanding the operations at the existing site and acting as regulatory liaison for the client.

PUBLICATIONS

- Not Just a Chemical Interaction: Complementary Roles of Geologist & Engineer on a Hazardous Waste Remediation Project at BNL (5th Conference: Metropolitan & Long Island Association of Prof'l Geologists (M/LIPAG, 04/98, SUNY Stony Brook)
- Much Ado About Mercury: Evaluation of Treatment Options for Mercury Contaminated Soil at Brookhaven Nat'l Laboratory (BNL) (6th Conference, M/LIPAG, 04/99, SUNY Stony Brook)
- Open-Loop Geothermal Well Systems on Long Island (10th Conference, M/LIPAG, 04/03, SUNY Stony Brook)

APPENDIX D
LABORATORY SOPS FOR PFAS ANALYSIS

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Determination of Selected Perfluorinated Alkyl Substances in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)

Reference: EPA Method 537, Version 1.1, September 2009, EPA Document #: EPA/600/R-08/092

EPA Method 537.1, Version 1, November 2018, EPA Document #: EPA/600/R-18/352

Department of Defense, Quality Systems Manual for Environmental Laboratories, Version 5.1, 2017

1. Scope and Application

Matrices: Drinking Water, Non-potable water

Definitions: Refer to Alpha Analytical Quality Manual.

1.1 This is a liquid chromatography/tandem mass spectrometry (LC/MS/MS) method for the determination of selected perfluorinated alkyl substances (PFASs) in drinking water. Accuracy and precision data have been generated in reagent water, and finished ground and surface waters for the compounds listed in Table 1.

1.2 The data report packages present the documentation of any method modification related to the samples tested. Depending upon the nature of the modification and the extent of intended use, the laboratory may be required to demonstrate that the modifications will produce equivalent results for the matrix. Approval of all method modifications is by one or more of the following laboratory personnel before performing the modification: Area Supervisor, Department Supervisor, Laboratory Director, or Quality Assurance Officer.

1.3 This method is restricted to use by or under the supervision of analysts experienced in the operation of the LC/MS/MS and in the interpretation of LC/MS/MS data. Each analyst must demonstrate the ability to generate acceptable results with this method by performing an initial demonstration of capability.

Table 1

Parameter	Acronym	CAS
Hexafluoropropylene oxide dimer acid [1]	HFPO-DA	13252-13-6
N-ethyl perfluorooctanesulfonamidoacetic acid	NEtFOSAA	2991-50-6
N-methyl perfluorooctanesulfonamidoacetic acid	NMeFOSAA	2355-31-9
Perfluorobutanesulfonic acid	PFBS	375-73-5
Perfluorodecanoic acid	PFDA	335-76-2
Perfluorododecanoic acid	PFDoA	307-55-1
Perfluoroheptanoic acid	PFHpA	375-85-9
Perfluorohexanesulfonic acid	PFHxS	355-46-4
Perfluorohexanoic acid	PFHxA	307-24-4

Table 1 (cont.)

Perfluorononanoic acid	PFNA	375-95-1
Perfluorooctanesulfonic acid	PFOS	1763-23-1
Perfluorooctanoic acid	PFOA	335-67-1
Perfluorotetradecanoic acid	PFTA	376-06-7
Perfluorotridecanoic acid	PFTrDA	72629-94-8
Perfluoroundecanoic acid	PFUnA	2058-94-8
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid [1]	11Cl-PF3OUdS	763051-92-9
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid [1]	9Cl-PF3ONS	756426-58-1
4,8-dioxa-3H-perfluorononanoic acid [1]	ADONA	919005-14-4

[1] Compounds included as part of EPA 537.1 only.

2. Summary of Method

2.1 A 250-mL water sample is fortified with surrogates and passed through a solid phase extraction (SPE) cartridge containing polystyrenedivinylbenzene (SDVB) to extract the method analytes and surrogates. The compounds are eluted from the solid phase with a small amount of methanol. The extract is concentrated to dryness with nitrogen in a heated water bath, and then adjusted to a 1-mL volume with 96:4% (vol/vol) methanol: water after adding the IS(s). A 3µL injection is made into an LC equipped with a C18 column that is interfaced to an MS/MS. The analytes are separated and identified by comparing the acquired mass spectra and retention times to reference spectra and retention times for calibration standards acquired under identical LC/MS/MS conditions. The concentration of each analyte is determined by using the internal standard technique. Surrogate analytes are added to all Field and QC Samples to monitor the extraction efficiency of the method analytes.

2.2 Method Modifications from Reference

2.2.1 None.

3. Reporting Limits

3.1 The reporting limit for PFAS's is 2 ng/L (4ng/L for HFPO-DA).

4. Interferences

4.1 PFAS standards, extracts and samples should not come in contact with any glass containers or pipettes as these analytes can potentially adsorb to glass surfaces. PFAS analyte, IS and SUR standards commercially purchased in glass ampoules are acceptable; however, all subsequent transfers or dilutions performed by the analyst must be prepared and stored in polypropylene containers.

4.2 Method interferences may be caused by contaminants in solvents, reagents (including reagent water), sample bottles and caps, and other sample processing hardware that lead to discrete artifacts and/or elevated baselines in the chromatograms. The method analytes

in this method can also be found in many common laboratory supplies and equipment, such as PTFE (polytetrafluoroethylene) products, LC solvent lines, methanol, aluminum foil, SPE sample transfer lines, etc. All items such as these must be routinely demonstrated to be free from interferences (less than 1/3 the RL for each method analyte) under the conditions of the analysis by analyzing laboratory reagent blanks as described in Section 9.2. **Subtracting blank values from sample results is not permitted.**

4.3 Matrix interferences may be caused by contaminants that are co-extracted from the sample. The extent of matrix interferences will vary considerably from source to source, depending upon the nature of the water. Humic and/or fulvic material can be co-extracted during SPE and high levels can cause enhancement and/or suppression in the electrospray ionization source or low recoveries on the SPE sorbent. Total organic carbon (TOC) is a good indicator of humic content of the sample. Under the LC conditions used during method development, matrix effects due to total organic carbon (TOC) were not observed.

4.4 Relatively large quantities of the preservative (Sect. 6.2.1) are added to sample bottles. The potential exists for trace-level organic contaminants in these reagents. Interferences from these sources should be monitored by analysis of laboratory reagent blanks (Sect. 9.2.1), particularly when new lots of reagents are acquired.

4.5 SPE cartridges can be a source of interferences. The analysis of field and laboratory reagent blanks can provide important information regarding the presence or absence of such interferences. Brands and lots of SPE devices should be tested to ensure that contamination does not preclude analyte identification and quantitation.

5. Health and Safety

5.1 The toxicity or carcinogenicity of each reagent and standard used in this method is not fully established; however, each chemical compound should be treated as a potential health hazard. From this viewpoint, exposure to these chemicals must be reduced to the lowest possible level by whatever means available. A reference file of material safety data sheets is available to all personnel involved in the chemical analysis. Additional references to laboratory safety are available in the Chemical Hygiene Plan.

5.2 All personnel handling environmental samples known to contain or to have been in contact with municipal waste must follow safety practices for handling known disease causative agents.

5.3 PFOA has been described as “likely to be carcinogenic to humans.” Pure standard materials and stock standard solutions of these method analytes should be handled with suitable protection to skin and eyes, and care should be taken not to breathe the vapors or ingest the materials.

6. Sample Collection, Preservation, Shipping and Handling

6.1 Sample Collection

6.1.1 Samples must be collected in three (3) 250-mL high density polyethylene (HDPE) container with an unlined plastic screw cap.

6.1.2 The sample handler must wash their hands before sampling and wear nitrile gloves while filling and sealing the sample bottles. PFAS contamination during sampling can occur from a number of common sources, such as food packaging

and certain foods and beverages. Proper hand washing and wearing nitrile gloves will aid in minimizing this type of accidental contamination of the samples.

6.1.3 Open the tap and allow the system to flush until the water temperature has stabilized (approximately 3 to 5 min). Collect samples from the flowing system.

6.1.4 Fill sample bottles, taking care not to flush out the sample preservation reagent. Samples do not need to be collected headspace free.

6.1.5 After collecting the sample, cap the bottle and agitate by hand until preservative is dissolved. Keep the sample sealed from time of collection until extraction.

6.1.6 Field Reagent Blank (FRB)

6.1.6.1 A FRB must be handled along with each sample set. The sample set is composed of samples collected from the same sample site and at the same time. At the laboratory, fill the field blank sample bottle with reagent water and preservatives, seal, and ship to the sampling site along with the sample bottles. For each FRB shipped, an empty sample bottle (no preservatives) must also be shipped. At the sampling site, the sampler must open the shipped FRB and pour the preserved reagent water into the empty shipped sample bottle, seal and label this bottle as the FRB. The FRB is shipped back to the laboratory along with the samples and analyzed to ensure that PFASs were not introduced into the sample during sample collection/handling.

6.1.6.2 The same batch of preservative must be used for the FRBs as for the field samples.

6.1.6.3 The reagent water used for the FRBs must be initially analyzed for method analytes as a MB and must meet the MB criteria in Section 9.2.1 prior to use. This requirement will ensure samples are not being discarded due to contaminated reagent water rather than contamination during sampling.

6.2 Sample Preservation

6.2.1 The preservation reagent, listed in the table below, is added to each sample bottle as a solid prior to shipment to the field (or prior to sample collection).

Table 2

Compound	Amount	Purpose
Trizma	5.0 g/l	Buffering reagent and removes free chlorine

6.3 Sample Shipping

6.3.1 Samples must be chilled during shipment and must not exceed 10 °C during the first 48 hours after collection. Sample temperature must be confirmed to be at or below 10 °C when the samples are received at the laboratory. Samples stored in the lab must be held at or below 6 °C until extraction, but should not be frozen.

NOTE: Samples that are significantly above 10° C, at the time of collection, may need to be iced or refrigerated for a period of time, in order to chill them prior to shipping. This will allow them to be shipped with sufficient ice to meet the above requirements.

6.4 Sample Handling

6.4.1 Holding Times

6.4.1.1 Water samples should be extracted as soon as possible but must be extracted within 14 days. Extracts must be stored at room temperature and analyzed within 28 days after extraction.

7. Equipment and Supplies

7.1 SAMPLE CONTAINERS – 250-mL high density polyethylene (HDPE) bottles fitted with unlined screw caps. Sample bottles must be discarded after use.

7.2 POLYPROPYLENE BOTTLES – 4-mL narrow-mouth polypropylene bottles.

7.3 CENTRIFUGE TUBES – 15-mL conical polypropylene tubes with polypropylene screw caps for storing standard solutions and for collection of the extracts.

7.4 AUTOSAMPLER VIALS – Polypropylene 0.7-mL autosampler vials with polypropylene caps.

7.4.1 NOTE: Polypropylene vials and caps are necessary to prevent contamination of the sample from PTFE coated septa. However, polypropylene caps do not reseal, so evaporation occurs after injection. Thus, multiple injections from the same vial are not possible.

7.5 POLYPROPYLENE GRADUATED CYLINDERS – Suggested sizes include 25, 50, 100 and 1000-mL cylinders.

7.6 MICRO SYRINGES – Suggested sizes include 5, 10, 25, 50, 100, 250, 500 and 1000-µL syringes.

7.7 PLASTIC PIPETS – Polypropylene or polyethylene disposable pipets.

7.8 ANALYTICAL BALANCE – Capable of weighing to the nearest 0.0001 g.

7.9 SOLID PHASE EXTRACTION (SPE) APPARATUS FOR USING CARTRIDGES

7.9.1 SPE CARTRIDGES – 0.5 g, 6-mL SPE cartridges containing styrenedivinylbenzene (SDVB) sorbent phase.

7.9.2 VACUUM EXTRACTION MANIFOLD – A manual vacuum manifold with large volume sampler for cartridge extractions, or an automatic/robotic sample preparation system designed for use with SPE cartridges, may be used if all QC requirements discussed in Section 9 are met. Extraction and/or elution steps may not be changed or omitted to accommodate the use of an automated system. Care must be taken with automated SPE systems to ensure the PTFE commonly used in these systems does not contribute to unacceptable analyte concentrations in the MB (Sect. 9.2.1).

7.9.3 SAMPLE DELIVERY SYSTEM – Use of a polypropylene transfer tube system, which transfers the sample directly from the sample container to the SPE cartridge, is recommended, but not mandatory. Standard extraction manifolds come equipped with PTFE transfer tube systems. These can be replaced with 1/8” O.D. x 1/16” I.D. polypropylene or polyethylene tubing cut to an appropriate length to ensure no sample contamination from the sample transfer lines. Other types of non-PTFE tubing may be used provided it meets the MB (Sect. 9.2.1)

and LCS (Sect. 9.3) QC requirements. The PTFE transfer tubes may be used, but an MB must be run on each PFTE transfer tube and the QC requirements in Section 13.2.2 must be met. In the case of automated SPE, the removal of PTFE lines may not be feasible; therefore, MBs will need to be rotated among the ports and must meet the QC requirements of Sections 13.2.2 and 9.2.1.

7.10 EXTRACT CONCENTRATION SYSTEM – Extracts are concentrated by evaporation with nitrogen using a water bath set no higher than 65 °C.

7.11 LABORATORY OR ASPIRATOR VACUUM SYSTEM – Sufficient capacity to maintain a vacuum of approximately 10 to 15 inches of mercury for extraction cartridges.

7.12 LIQUID CHROMATOGRAPHY (LC)/TANDEM MASS SPECTROMETER (MS/MS) WITH DATA SYSTEM

7.12.1 LC SYSTEM – Instrument capable of reproducibly injecting up to 10-µL aliquots, and performing binary linear gradients at a constant flow rate near the flow rate used for development of this method (0.3 mL/min). The LC must be capable of pumping the water/methanol mobile phase without the use of a degasser which pulls vacuum on the mobile phase bottle (other types of degassers are acceptable). Degassers which pull vacuum on the mobile phase bottle will volatilize the ammonium acetate mobile phase causing the analyte peaks to shift to earlier retention times over the course of the analysis batch. The usage of a column heater is optional.

NOTE: During the course of method development, it was discovered that while idle for more than one day, PFASs built up in the PTFE solvent transfer lines. To prevent long delays in purging high levels of PFASs from the LC solvent lines, they were replaced with PEEK tubing and the PTFE solvent frits were replaced with stainless steel frits. It is not possible to remove all PFAS background contamination, but these measures help to minimize their background levels.

7.12.2 LC/TANDEM MASS SPECTROMETER – The LC/MS/MS must be capable of negative ion electrospray ionization (ESI) near the suggested LC flow rate of 0.3 mL/min. The system must be capable of performing MS/MS to produce unique product ions for the method analytes within specified retention time segments. A minimum of 10 scans across the chromatographic peak is required to ensure adequate precision.

7.12.3 DATA SYSTEM – An interfaced data system is required to acquire, store, reduce, and output mass spectral data. The computer software should have the capability of processing stored LC/MS/MS data by recognizing an LC peak within any given retention time window. The software must allow integration of the ion abundance of any specific ion within specified time or scan number limits. The software must be able to calculate relative response factors, construct linear regressions or quadratic calibration curves, and calculate analyte concentrations.

7.12.4 ANALYTICAL COLUMN – An LC C_{18} column (2.1 x 150 mm) packed with 5 µm d_p C_{18} solid phase particles was used. Any column that provides adequate resolution, peak shape, capacity, accuracy, and precision (Sect. 9) may be used.

8. Reagents and Standards

8.1 GASES, REAGENTS, AND SOLVENTS – Reagent grade or better chemicals should be used.

8.1.1 REAGENT WATER – Purified water which does not contain any measurable quantities of any method analytes or interfering compounds greater than 1/3 the RL for each method analyte of interest. Prior to daily use, at least 3 L of reagent water should be flushed from the purification system to rinse out any build-up of analytes in the system's tubing.

8.1.2 METHANOL (CH_3OH, CAS#: 67-56-1) – High purity, demonstrated to be free of analytes and interferences.

8.1.3 AMMONIUM ACETATE ($NH_4C_2H_3O_2$, CAS#: 631-61-8) – High purity, demonstrated to be free of analytes and interferences.

8.1.4 2 mM AMMONIUM ACETATE/REAGENT WATER – To prepare 1 L, add .154 g ammonium acetate to 1 L of reagent water. This solution is prone to volatility losses and should be replaced at least every 48 hours.

8.1.5 TRIZMA PRESET CRYSTALS, pH 7.0 – Reagent grade. A premixed blend of Tris [Tris(hydroxymethyl)aminomethane] and Tris HCL [Tris(hydroxymethyl)aminomethane hydrochloride]. Alternatively, a mix of the two components with a weight ratio of 15.5/1 Tris HCL/Tris may be used. These blends are targeted to produce a pH near 7.0 at 25 °C in reagent water. Trizma functions as a buffer, and removes free chlorine in chlorinated finished waters (Sect. 6.2.1).

8.1.6 NITROGEN – Used for the following purposes: Nitrogen aids in aerosol generation of the ESI liquid spray and is used as collision gas in some MS/MS instruments. The nitrogen used should meet or exceed instrument manufacturer's specifications. In addition, Nitrogen is used to concentrate sample extracts (Ultra High Purity or equivalent).

8.1.7 ARGON – Used as collision gas in MS/MS instruments. Argon should meet or exceed instrument manufacturer's specifications. Nitrogen gas may be used as the collision gas provided sufficient sensitivity (product ion formation) is achieved.

8.2 STANDARD SOLUTIONS – When a compound purity is assayed to be 96% or greater, the weight can be used without correction to calculate the concentration of the stock standard. PFAS analyte, IS and SUR standards commercially purchased in glass ampoules are acceptable; however, all subsequent transfers or dilutions performed by the analyst must be prepared and stored in polypropylene containers. Standards for sample fortification generally should be prepared in the smallest volume that can be accurately measured to minimize the addition of excess organic solvent to aqueous samples.

NOTE: Stock standards (Sect. 8.2.1, 8.2.3 and 8.2.5) are stored at ≤4 °C. Primary dilution standards (Sect. 8.2.2 and 8.2.4) are stored at room temperature to prevent adsorption of the method analytes onto the container surfaces that may occur when refrigerated. Storing the standards at room temperature will also minimize daily imprecision due to the potential of inadequate room temperature stabilization.

8.2.1 IS STOCK STANDARD SOLUTIONS - IS stock standard solutions are stable for at least 6 months when stored at 4 °C. The stock solution is purchased at a concentration range of 1-4 ng/µl.

8.2.2 INTERNAL STANDARD PRIMARY DILUTION (IS PDS) STANDARD (0.5-2 ng/µL) – Prepare the IS PDS at a concentration of 0.5-2 ng/µL. The IS PDS is prepared in 96:4% (vol/vol) methanol:water. The IS PDS is stable for at least two months when stored in polypropylene centrifuge tubes at room temperature.

Table 3

Internal Standard	Conc. of IS Stock (ng/uL)	Vol. of IS Stock (mL)	Final Vol. of IS PDS (mL)	Final Conc. of IS PDS (ng/µL)
^{13}C-PFOA	1	1.0	2.0	0.5
^{13}C-PFOS	3	1.0	2.0	1.5
d_3-NMeFOSAA	4	1.0	2.0	2.0

8.2.3 SUR STOCK STANDARD SOLUTIONS – SUR stock standard solutions are stable for at least 6 months when stored at 4 °C.

8.2.4 SURROGATE PRIMARY DILUTION STANDARD (SUR PDS) (0.5-2 ng/µL) – Prepare the SUR PDS at a concentration of 0.5-2 ng/µL. The SUR PDS is prepared in 96:4% (vol/vol) methanol:water. This solution is used to fortify all QC and Field Samples. The PDS is stable for one year when stored in polypropylene centrifuge tubes at room temperature.

Table 4

Surrogate	Conc. of SUR Stock (ng/µL)	Vol. of SUR Stock (mL)	Final Vol. of SUR PDS (,L)	Final Conc. of SUR PDS (ng/µL)
^{13}C-PFHxA	1.0	1.0	2.0	0.5
^{13}C-PFDA	1.0	1.0	2.0	0.5
d_5-NEtFOSAA	4.0	1.0	2.0	2.0
Tetrafluoro-2-heptafluoropropoxy-$^{13}C_3$-propanoic acid[1]	50	1.0	2.0	0.5

[1] EPA 537.1 Surrogate only

8.2.5 ANALYTE STOCK STANDARD SOLUTION – Analyte stock standards are stable for at least 6 months when stored at -15 °C. When using these stock standards to prepare a PDS, care must be taken to ensure that these standards are at room temperature and adequately vortexed.

Table 5

Analyte	Analyte Stock Solvent	Concentration (ug/mL)
PFHxA	100% methanol	1.0
PFHpA	100% methanol	1.0
PFOA	100% methanol	1.0
PFNA	100% methanol	1.0
PFDA	100% methanol	1.0
PFUnA	100% methanol	1.0
PFDoA	100% methanol	1.0

PFTrDA	100% methanol	1.0
PFTA	100% methanol	1.0
PFBS	100% methanol	1.0

Table 5 (cont.)

Analyte	Analyte Stock Solvent	Concentration (ug/mL)
PFHxS	100% methanol	1.0
PFOS	100% methanol	1.0
NEtFOSAA	100% methanol	1.0
NMeFOSAA	100% methanol	1.0
HFPO-DA	100% methanol	50.0
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	100% methanol	50.0
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid	100% methanol	50.0
4,8-dioxa-3H-perfluorononanoic acid	100% methanol	50.0

8.2.6 LOW, MEDIUM AND HIGH LEVEL LCS – The LCS's will be prepared at the following concentrations and rotated per batch; 2 ng/L, 40 ng/L, 500 ng/l. The analyte PDS contains all the method analytes of interest at various concentrations in methanol containing 4% water. The analyte PDS has been shown to be stable for 6 months when stored at room temperature.

8.2.7 CALIBRATION STANDARDS (CAL) –

Current Concentrations (ng/mL): 0.5, 1.0, 5.0, 10.0, 50.0, 125 and 150 (optional)

Prepare the CAL standards over the concentration range of interest from dilutions of the analyte PDS in methanol containing 4% reagent water. The IS and SUR are added to the CAL standards at a constant concentration (10-40 ng/L). The lowest concentration CAL standard must be at or below the RL (2 ng/L), which may depend on system sensitivity. The CAL standards may also be used as CCVs (Sect. 9.9). The CAL standards are stable for at least two weeks when stored at room temperature. Longer storage times are acceptable provided appropriate QC measures are documented demonstrating the CAL standard stability.

9. Quality Control

The laboratory must maintain records to document the quality of data that is generated. Ongoing data quality checks are compared with established performance criteria to determine if the results of analyses meet the performance characteristics of the method.

9.1 REPORTING LIMIT (RL) CONFIRMATION

9.1.1 Fortify, extract, and analyze seven replicate LCSs at 2 ng/l. These LCSs must contain all method preservatives described in Section 6.2.1. Calculate the mean measured concentration (*Mean*) and standard deviation for these replicates. Determine the Half Range for the prediction interval of results (HR_{PIR}) using the equation below

$$HR_{PIR} = 3.963s$$

Where:

s = the standard deviation

3.963 = a constant value for seven replicates.

9.1.2 Confirm that the upper and lower limits for the Prediction Interval of Result (*PIR* = *Mean* ± HR_{PIR}) meet the upper and lower recovery limits as shown below

The Upper PIR Limit must be ≤150% recovery.

$$\frac{Mean + HR_{PIR}}{Fortified\ Concentration} \times 100\% \leq 150\%$$

The Lower PIR Limit must be ≥ 50% recovery.

$$\frac{Mean - HR_{PIR}}{Fortified\ Concentration} \times 100\% \geq 50\%$$

9.1.3 The RL is validated if both the Upper and Lower PIR Limits meet the criteria described above. If these criteria are not met, the RL has been set too low and must be determined again at a higher concentration.

9.2 Blank(s)

9.2.1 **METHOD BLANK (MB) -** A Method Blank (MB) is required with each extraction batch to confirm that potential background contaminants are not interfering with the identification or quantitation of method analytes. If more than 20 Field Samples are included in a batch, analyze an MB for every 20 samples. If the MB produces a peak within the retention time window of any analyte that would prevent the determination of that analyte, determine the source of contamination and eliminate the interference before processing samples. Background contamination must be reduced to an acceptable level before proceeding. Background from method analytes or other contaminants that interfere with the measurement of method analytes must be below 1/3 of the RL. Blank contamination is estimated by extrapolation, if the concentration is below the lowest CAL standard. This extrapolation procedure is not allowed for sample results as it may not meet data quality objectives. If the method analytes are detected in the MB at concentrations equal to or greater than this level, then all data for the problem analyte(s) must be considered invalid for all samples in the extraction batch. Because background contamination is a significant problem for several method analytes, it is highly recommended that the analyst maintain a historical record of MB data.

9.2.2 **FIELD REAGENT BLANK (FRB)** - The purpose of the FRB is to ensure that PFASs measured in the Field Samples were not inadvertently introduced into the sample during sample collection/handling. Analysis of the FRB is required only if a Field Sample contains a method analyte or analytes at or above the RL. The FRB is processed, extracted and analyzed in exactly the same manner as a Field Sample. If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the RL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed.

9.3 Laboratory Control Sample (LCS)

9.3.1 An LCS is required with each extraction batch. The fortified concentration of the LCS must be rotated between low, medium, and high concentrations from batch to batch.

9.3.2 The low concentration LCS must be as near as practical to, but no more than two times, the RL. Similarly, the high concentration LCS should be near the high end of the calibration range established during the initial calibration (Sect. 10.6).

9.3.3 Results of the low-level LCS analyses must be 50-150% of the true value. Results of the medium and high-level LCS analyses must be 70-130% of the true value. If the LCS results do not meet these criteria for method analytes, then all data for the problem analyte(s) must be considered invalid for all samples in the extraction batch.

9.3.4 It is the responsibility of the extraction chemist to view the previous extraction batch to determine the next spiking concentration. (Low → Medium → High)

9.4 Internal Standards (IS)

The analyst must monitor the peak areas of the IS(s) in all injections during each analysis day. The IS responses (peak areas) in any chromatographic run must be within 70-140% of the response in the most recent CCV and must not deviate by more than 50% from the average area measured during initial analyte calibration. If the IS areas in a chromatographic run do not meet these criteria, inject a second aliquot of that extract aliquoted into a new capped autosampler vial. Random evaporation losses have been observed with the polypropylene caps causing high IS(s) areas.

9.4.1 If the reinjected aliquot produces an acceptable IS response, report results for that aliquot.

9.4.2 If the reinjected extract fails again, the analyst should check the calibration by reanalyzing the most recently acceptable CAL standard. If the CAL standard fails the criteria of Section 9.9, recalibration is in order per Section 10.6. If the CAL standard is acceptable, extraction of the sample may need to be repeated provided the sample is still within the holding time. Otherwise, report results obtained from the reinjected extract, but annotate as suspect. Alternatively, collect a new sample and re-analyze.

9.5 Surrogate Recovery

The SUR standard is fortified into all samples, CCVs, MBs, LCSs, MSs, MSDs, FD, and FRB prior to extraction. It is also added to the CAL standards. The SUR is a means of assessing method performance from extraction to final chromatographic measurement. Calculate the recovery (%R) for the SUR using the following equation

$$\%R = (A / B) \times 100$$

Where:

A = calculated SUR concentration for the QC or Field Sample
B = fortified concentration of the SUR.

9.5.1.1 SUR recovery must be in the range of 70-130%. When SUR recovery from a sample, blank, or CCV is less than 70% or greater than 130%, check 1) calculations to locate possible errors, 2) standard solutions for degradation, 3) contamination, and 4) instrument performance. Correct the problem and reanalyze the extract.

9.5.1.2 If the extract reanalysis meets the SUR recovery criterion, report only data for the reanalyzed extract.

9.5.1.3 If the extract reanalysis fails the 70-130% recovery criterion, the analyst should check the calibration by injecting the last CAL standard that passed. If the CAL standard fails the criteria of Section 10.7, recalibration is in order per Section 10.6. If the CAL standard is acceptable, extraction of the sample should be repeated provided the sample is still within the holding time. If the re-extracted sample also fails the recovery criterion, report all data for that sample as suspect/SUR recovery to inform the data user that the results are suspect due to SUR recovery. Alternatively, collect a new sample and re-analyze.

9.6 Matrix Spike (MS)

9.6.1 Analysis of an MS is required in each extraction batch and is used to determine that the sample matrix does not adversely affect method accuracy. Assessment of method precision is accomplished by analysis of a Field Duplicate (FD) (Sect. 9.7); however, infrequent occurrence of method analytes would hinder this assessment. If the occurrence of method analytes in the samples is infrequent, or if historical trends are unavailable, a second MS, or MSD, must be prepared, extracted, and analyzed from a duplicate of the Field Sample. Extraction batches that contain MSDs will not require the extraction of a field sample duplicate. If a variety of different sample matrices are analyzed regularly, for example, drinking water from groundwater and surface water sources, method performance should be established for each. Over time, MS data should be documented by the laboratory for all routine sample sources.

9.6.2 Within each extraction batch, a minimum of one Field Sample is fortified as an MS for every 20 Field Samples analyzed. The MS is prepared by spiking a sample with an appropriate amount of the Analyte Stock Standard (Sect. 8.2.5). Use historical data and rotate through the low, mid and high concentrations when selecting a fortifying concentration. Calculate the percent recovery (%*R*) for each analyte using the equation

$$\%R = \frac{(A - B)}{C} \times 100$$

Where:

A = measured concentration in the fortified sample
B = measured concentration in the unfortified sample
C = fortification concentration.

9.6.3 Analyte recoveries may exhibit matrix bias. For samples fortified at or above their native concentration, recoveries should range between 70-130%, except for low-level fortification near or at the RL (within a factor of 2-times the RL concentration) where 50-150% recoveries are acceptable. If the accuracy of any analyte falls outside the designated range, and the laboratory performance for

that analyte is shown to be in control in the CCVs, the recovery is judged to be matrix biased. The result for that analyte in the unfortified sample is labeled suspect/matrix to inform the data user that the results are suspect due to matrix effects.

9.7 Laboratory Duplicate

9.7.1 FIELD DUPLICATE OR LABORATORY FORTIFIED SAMPLE MATRIX DUPLICATE (FD or MSD) – Within each extraction batch (not to exceed 20 Field Samples), a minimum of one FD or MSD must be analyzed. Duplicates check the precision associated with sample collection, preservation, storage, and laboratory procedures. If method analytes are not routinely observed in Field Samples, an MSD should be analyzed rather than an FD.

9.7.2 Calculate the relative percent difference (*RPD*) for duplicate measurements (*FD1* and *FD2*) using the equation

$$RPD = \frac{|FD1 - FD2|}{(FD1 + FD2) / 2} \times 100$$

9.7.3 RPDs for FDs should be ≤30%. Greater variability may be observed when FDs have analyte concentrations that are within a factor of 2 of the RL. At these concentrations, FDs should have RPDs that are ≤50%. If the RPD of any analyte falls outside the designated range, and the laboratory performance for that analyte is shown to be in control in the CCV, the recovery is judged to be matrix biased. The result for that analyte in the unfortified sample is labeled suspect/matrix to inform the data user that the results are suspect due to matrix effects.

9.7.4 If an MSD is analyzed instead of a FD, calculate the relative percent difference (RPD) for duplicate MSs (MS and MSD) using the equation

$$RPD = \frac{|MS - MSD|}{(MS + MSD) / 2} \times 100$$

9.7.5 RPDs for duplicate MSs should be ≤30% for samples fortified at or above their native concentration. Greater variability may be observed when MSs are fortified at analyte concentrations that are within a factor of 2 of the RL. MSs fortified at these concentrations should have RPDs that are ≤50% for samples fortified at or above their native concentration. If the RPD of any analyte falls outside the designated range, and the laboratory performance for that analyte is shown to be in control in the CCV, the recovery is judged to be matrix biased. The result for that analyte in the unfortified sample is labeled suspect/matrix to inform the data user that the results are suspect due to matrix effects.

9.8 Initial Calibration Verification (ICV)

9.8.1 As part of the IDC (Sect. 13.2), each time a new Analyte Stock Standard solution (Sect. 8.2.5) is used, and at least quarterly, analyze a QCS sample from a source different from the source of the CAL standards. If a second vendor is not available, then a different lot of the standard should be used. The QCS should be prepared and analyzed just like a CCV. Acceptance criteria for the QCS are identical to the CCVs; the calculated amount for each analyte must be ± 30% of the expected value. If measured analyte concentrations are not of acceptable

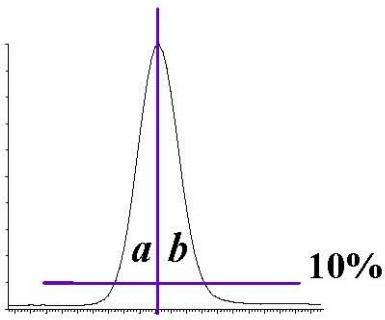
accuracy, check the entire analytical procedure to locate and correct the problem.

9.9 Continuing Calibration Verification (CCV)

9.9.1 CCV Standards are analyzed at the beginning of each analysis batch, after every 10 Field Samples, and at the end of the analysis batch. See Section 10.7 for concentration requirements and acceptance criteria.

9.10 Method-specific Quality Control Samples

9.10.1 PEAK ASYMMETRY FACTOR – A peak asymmetry factor must be calculated using the equation below during the IDL and every time a calibration curve is generated. The peak asymmetry factor for the first two eluting peaks in a midlevel CAL standard (if only two analytes are being analyzed, both must be evaluated) must fall in the range of 0.8 to 1.5. Modifying the standard or extract composition to more aqueous content to prevent poor shape is not permitted. See guidance in Section 10.6.4.1 if the calculated peak asymmetry factors do not meet the criteria.



$$A_s = b / a$$

Where:

A_s = peak asymmetry factor
b = width of the back half of the peak measured (at 10% peak height) from the trailing edge of the peak to a line dropped perpendicularly from the peak apex
a = the width of the front half of the peak measured (at 10% peak height) from the leading edge of the peak to a line dropped perpendicularly from the apex.

9.11 Method Sequence

ICV

CCV-LOW

MB

LCS

LCSD

MS

Duplicate or MSD

Field Samples (1-10)

CCV-MID

Field Samples (11-20)

CCV-HIGH

10. Procedure

10.1 Equipment Set-up

10.1.1 This procedure may be performed manually or in an automated mode using a robotic or automatic sample preparation device. If an automated system is used to prepare samples, follow the manufacturer's operating instructions, but all extraction and elution steps must be the same as in the manual procedure. Extraction and/or elution steps may not be changed or omitted to accommodate the use of an automated system. If an automated system is used, the MBs should be rotated among the ports to ensure that all the valves and tubing meet the MB requirements (Sect. 9.2).

10.1.2 Some of the PFASs adsorb to surfaces, including polypropylene. Therefore, the aqueous sample bottles must be rinsed with the elution solvent (Sect 10.3.4) whether extractions are performed manually or by automation. The bottle rinse is passed through the cartridge to elute the method analytes and is then collected (Sect. 10.3.4).

10.1.3 **NOTE:** The SPE cartridges and sample bottles described in this section are designed as single use items and should be discarded after use. They may not be refurbished for reuse in subsequent analyses.

10.2 Sample Preparation

10.2.1 Samples are preserved, collected and stored as presented in Section 6. All Field and QC Samples, including the MB, LCS and FRB, must contain the dechlorinating agent listed in Section 6.2.1. Determine sample volume. An indirect measurement may be done in one of two ways: by marking the level of the sample on the bottle or by weighing the sample and bottle to the nearest 10 g. After extraction, proceed to Section 10.5 for final volume determination. Some of the PFASs adsorb to surfaces, thus the sample volume may **NOT** be transferred to a graduated cylinder for volume measurement. The MB, LCS and FRB may be prepared by measuring 250 mL of reagent water with a polypropylene graduated cylinder or filling a 250-mL sample bottle to near the top.

The entire sample that is received must be sent through the SPE cartridge. In addition, the bottle must be solvent rinsed and this rinse must be sent through the SPE cartridge as well. The method blank (MB) and laboratory control sample (LCS) must be extracted in exactly the same manner (i.e., must include the bottle solvent rinse). It should be noted that a water rinse alone is not sufficient. This does not apply to samples with high concentrations of PFAS that are prepared using serial dilution and not SPE.

10.2.2 Add 20 µL of the SUR PDS (Sect. 8.2.4) to each sample, cap and invert to mix for a final concentration of 10 ng/L for ^{13}C-PFHxA and ^{13}C-PFDA and 40 ng/L for d_5-NEtFOSAA.

10.2.3 In addition to the SUR(s) and dechlorination agent, if the sample is an LCS, MS, or MSD, add the necessary amount of analyte PDS (Sect. 8.2.5). Cap and invert each sample to mix.

10.3 Cartridge SPE Procedure

10.3.1 CARTRIDGE CLEAN-UP AND CONDITIONING – DO NOT allow cartridge packing material to go dry during any of the conditioning steps. Rinse each cartridge with 15 mL of methanol. Next, rinse each cartridge with 18 mL of reagent water, without allowing the water to drop below the top edge of the packing. If the cartridge goes dry during the conditioning phase, the conditioning must be started over. Add 4-5 mL of reagent water to each cartridge, attach the sample transfer tubes (Sect. 7.2.3), turn on the vacuum, and begin adding sample to the cartridge.

10.3.2 SAMPLE EXTRACTON – Adjust the vacuum so that the approximate flow rate is 10-15 mL/min. Do not allow the cartridge to go dry before all the sample has passed through.

10.3.3 SAMPLE BOTTLE AND CARTRIDGE RINSE – After the entire sample has passed through the cartridge, rinse the sample bottles with two 7.5-mL aliquots of reagent water and draw each aliquot through the sample transfer tubes and the cartridges. Draw air or nitrogen through the cartridge for 5 min at high vacuum (10-15 in. Hg).

NOTE: If empty plastic reservoirs are used in place of the sample transfer tubes to pass the samples through the cartridges, these reservoirs must be treated like the transfer tubes. After the entire sample has passed through the cartridge, the reservoirs must be rinsed to waste with reagent water.

10.3.4 SAMPLE BOTTLE AND CARTRIDGE ELUTION – Turn off and release the vacuum. Lift the extraction manifold top and insert a rack with collection tubes into the extraction tank to collect the extracts as they are eluted from the cartridges. Rinse the sample bottles with 4 mL of methanol and elute the analytes from the cartridges by pulling the 4 mL of methanol through the sample transfer tubes and the cartridges. Use a low vacuum such that the solvent exits the cartridge in a dropwise fashion. Repeat sample bottle rinse and cartridge elution with a second 4-mL aliquot of methanol.

NOTE: If empty plastic reservoirs are used in place of the sample transfer tubes to pass the samples through the cartridges, these reservoirs must be treated like the transfer tubes. After the reservoirs have been rinsed in Section 10.3.3, the elution solvent used to rinse the sample bottles must be swirled down the sides of the reservoirs while eluting the cartridge to ensure that any method analytes on the surface of the reservoirs are transferred to the extract.

10.4 Extract Concentration

10.4.1 Concentrate the extract to dryness under a gentle stream of nitrogen in a heated water bath (60-65 °C) to remove all the water/methanol mix. Add the appropriate amount of 96:4% (vol/vol) methanol:water solution and the IS PDS (Sect. 8.2.2) to the collection vial to bring the volume to 1 mL and vortex. Transfer a small aliquot with a plastic pipet (Sect. 7.6) to a polypropylene autosampler vial.

NOTE: It is recommend that the entire 1-mL aliquot not be transferred to the autosampler vial because the polypropylene autosampler caps do not reseal after injection. Therefore, do not store the extracts in the

autosampler vials as evaporation losses can occur occasionally in these autosampler vials. Extracts can be stored in 15-mL centrifuge tubes (Sect. 7.3).

10.5 Sample Volume Determination

10.5.1 If the level of the sample was marked on the sample bottle, use a graduated cylinder to measure the volume of water required to fill the original sample bottle to the mark made prior to extraction. Determine to the nearest 10 mL. If using weight to determine volume, weigh the empty bottle to the nearest 10 g and determine the sample weight by subtraction of the empty bottle weight from the original sample weight (Sect. 10.2.1). Assume a sample density of 1.0 g/mL. In either case, the sample volume will be used in the final calculations of the analyte concentration (Sect. 11.2).

10.6 Initial Calibration - Demonstration and documentation of acceptable initial calibration is required before any samples are analyzed. After the initial calibration is successful, a CCV is required at the beginning and end of each period in which analyses are performed, and after every tenth Field Sample.

10.6.1 ESI-MS/MS TUNE

10.6.1.1 Calibrate the mass scale of the MS with the calibration compounds and procedures prescribed by the manufacturer.

10.6.1.2 Optimize the [M-H]- for each method analyte by infusing approximately 0.5-1.0 µg/mL of each analyte (prepared in the initial mobile phase conditions) directly into the MS at the chosen LC mobile phase flow rate (approximately 0.3 mL/min). This tune can be done on a mix of the method analytes. The MS parameters (voltages, temperatures, gas flows, etc.) are varied until optimal analyte responses are determined. The method analytes may have different optima requiring some compromise between the optima.

10.6.1.3 Optimize the product ion for each analyte by infusing approximately 0.5-1.0 µg/mL of each analyte (prepared in the initial mobile phase conditions) directly into the MS at the chosen LC mobile phase flow rate (approximately 0.4 mL/min). This tune can be done on a mix of the method analytes. The MS/MS parameters (collision gas pressure, collision energy, etc.) are varied until optimal analyte responses are determined. Typically, the carboxylic acids have very similar MS/MS conditions and the sulfonic acids have similar MS/MS conditions.

10.6.2 Establish LC operating parameters that optimize resolution and peak shape. Modifying the standard or extract composition to more aqueous content to prevent poor shape is not permitted.

Cautions: LC system components, as well as the mobile phase constituents, contain many of the method analytes in this method. Thus, these PFASs will build up on the head of the LC column during mobile phase equilibration. To minimize the background PFAS peaks and to keep background levels constant, the time the LC column sits at initial conditions must be kept constant and as short as possible (while ensuring reproducible retention times). In addition, prior to daily use, flush the column with 100% methanol for at least 20 min before initiating a sequence. It may be necessary on some systems to flush other LC components such as wash

syringes, sample needles or any other system components before daily use.

Mobile phase modifiers other than 20 mM ammonium acetate may be used at the discretion of the analyst, provided that the retention time stability criteria in Sect. 10.9.2 can be met over a period of two weeks. During method development, retention times shifted to shorter and shorter times as days progressed when mobile phases with less than 20 mM ammonium acetate were used.

10.6.3 Inject a mid-level CAL standard under LC/MS conditions to obtain the retention times of each method analyte. If analyzing for PFTA, ensure that the LC conditions are adequate to prevent co-elution of PFTA and the mobile phase interferants. These interferants have the same precursor and products ions as PFTA, and under faster LC conditions may co-elute with PFTA. Divide the chromatogram into retention time windows each of which contains one or more chromatographic peaks. During MS/MS analysis, fragment a small number of selected precursor ions ([M-H]-) for the analytes in each window and choose the most abundant product ion. For maximum sensitivity, small mass windows of ±0.5 daltons around the product ion mass were used for quantitation. If sufficient sensitivity exists to meet the RL, wider mass ranges may be used to obtain more confirmation ions.

10.6.3.1 As recommended by the EPA Advisory on September 2016, both linear and branched isomers should be included in the quantitation. NOTE: As the NOTE in Section 10.6.4.1 indicates, PFOS has linear and branched isomers. There have been reports that not all the products ions in the linear PFOS are produced in all the branched PFOS isomers. (This phenomenon probably exists for PFHxS and PFBS also, although it has not been studied to date.) Thus, in an attempt to reduce PFOS bias, it is required that the *m/z* 499 → *m/z* 80 transition be used as the quantitation transition. Some MS/MS instruments, such as conventional ion traps, may not be able to scan a product ion with such a wide mass difference from the precursor ion; therefore, they may not be used for this method if PFOS, PFBS, or PFHxS analysis is to be conducted. Literature reports indicate for the most abundant PFOS isomer, which is the linear isomer, that all the products ions obtained on an ion trap have less than 10% relative abundance. In addition, there is not a single ion trap MS/MS transition that encompasses the linear isomer and the majority of the branch isomers; thus, the bias would be unacceptably high.

10.6.4 Inject a mid-level CAL standard under optimized LC/MS/MS conditions to ensure that each method analyte is observed in its MS/MS window and that there are at least 10 scans across the peak for optimum precision.

10.6.4.1 If broad, split or fronting peaks are observed for the first two eluting chromatographic peaks (if only two analytes are being analyzed, both must be evaluated), change the initial mobile phase conditions to higher aqueous content until the peak asymmetry ratio for each peak is 0.8 – 1.5. The peak asymmetry factor is calculated as described in Section 9.10.1 on a mid-level CAL standard. The peak asymmetry factor must meet the above criteria for the first two eluting peaks during the IDL and every time a new calibration curve is generated. Modifying the standard

or extract composition to more aqueous content to prevent poor shape is not permitted.

NOTE: PFHxS, PFOS, NMeFOSAA, and NEtFOSAA have multiple chromatographic peaks using the LC conditions in Table 5 due to chromatographic resolution of the linear and branched isomers of these compounds. According to the EPA Advisory, September 2016, the branched isomers are identified by analyzing a qualitative/semi-qualitative mixed PFOA standard and the quantitation of PFOA is accomplished by integration the total response which includes peaks identified as linear and branched isomers. Most PFASs are produced by two different processes. One process gives rise to linear PFASs only while the other process produces both linear and branched isomers. Thus, both branched and linear PFASs can potentially be found in the environment. For the aforementioned compounds that give rise to more than one peak, all the chromatographic peaks observed in the standard must be integrated and the areas totaled. Chromatographic peaks in a sample must be integrated in the same way as the CAL standard.

10.6.5 Prepare a set of CAL standards as described in Section 8.2.7. The lowest concentration CAL standard must be at or below the RL (2 ng/L), which may depend on system sensitivity. It is recommended that at least four of the CAL standards are at a concentration greater than or equal to the RL.

10.6.6 The LC/MS/MS system is calibrated using the IS technique. Use the LC/MS/MS data system software to generate a linear regression or quadratic calibration curve for each of the analytes. This curve **must always** be forced through zero and may be concentration weighted, if necessary. Forcing zero allows for a better estimate of the background levels of method analytes.

10.6.6.1 The isotopically labeled IS(s) in this method may undergo suppression in the ESI source if the concentration of the co-eluting unlabeled method analyte(s) is too high. The analyte concentration at which suppression may occur can vary depending on the instrument, LC conditions, ESI conditions, IS concentration, etc. To evaluate whether suppression is occurring during calibration, calculate the relative percent difference (*RPD*) between the high (H) and low (L) areas for each IS using the equation

$$RPD = \frac{(H - L)}{(H + L) / 2} \times 100$$

10.6.6.2 The RPD calculated above must be <20% for each IS during calibration. If the calculated RPD is >20% for any IS, the analyst must recalibrate at lower analyte concentrations until the IS RPDs are <20%.

10.6.7 CALIBRATION ACCEPTANCE CRITERIA – When quantitated using the initial calibration curve, each calibration point, except the lowest point, for each analyte should calculate to be within 70-130% of its true value. The lowest CAL point should calculate to be within 50-150% of its true value. If these criteria cannot be met, the analyst will have difficulty meeting ongoing QC criteria. It is recommended that corrective action is taken to reanalyze the CAL standards, restrict the range of calibration, or select an alternate method of calibration (forcing the curve through zero is still required).

10.6.7.1 CAUTION: When acquiring MS/MS data, LC operating conditions must be carefully reproduced for each analysis to provide reproducible retention times. If this is not done, the correct ions will not be monitored at the appropriate times. As a precautionary measure, the chromatographic peaks in each window must not elute too close to the edge of the segment time window.

10.7 CONTINUING CALIBRATION CHECK (CCV) – Minimum daily calibration verification is as follows. Verify the initial calibration at the beginning and end of each group of analyses, and after every tenth sample during analyses. In this context, a "sample" is considered to be a Field Sample. MBs, CCVs, LCSs, MSs, FDs FRBs and MSDs are not counted as samples. The beginning CCV of each analysis batch must be at or below the RL in order to verify instrument sensitivity prior to any analyses. If standards have been prepared such that all low CAL points are not in the same CAL solution, it may be necessary to analyze two CAL standards to meet this requirement. Alternatively, the analyte concentrations in the analyte PDS may be customized to meet this criterion. Subsequent CCVs should alternate between a medium and high concentration CAL standard.

10.7.1 Inject an aliquot of the appropriate concentration CAL standard and analyze with the same conditions used during the initial calibration.

10.7.2 Determine that the absolute areas of the quantitation ions of the IS(s) are within 70-140% of the areas measured in the most recent continuing calibration check, and within 50-150% from the average areas measured during initial calibration. If any of the IS areas has changed by more than these amounts, adjustments must be made to restore system sensitivity. These adjustments may include cleaning of the MS ion source, or other maintenance as indicated in Section 10.7.4. Major instrument maintenance requires recalibration (Sect 10.6) and verification of sensitivity by analyzing a CCV at or below the RL (Sect 10.7). Control charts are useful aids in documenting system sensitivity changes.

10.7.3 Calculate the concentration of each analyte and SUR in the CCV. The calculated amount for each analyte and SUR for medium and high level CCVs must be within ± 30% of the true value. The calculated amount for the lowest calibration point for each analyte must be within ± 50% and the SUR must be within ± 30% of the true value. If these conditions do not exist, then all data for the problem analyte must be considered invalid, and remedial action should be taken (Sect. 10.7.4) which may require recalibration. Any Field or QC Samples that have been analyzed since the last acceptable calibration verification should be reanalyzed after adequate calibration has been restored, with the following exception. **If the CCV fails because the calculated concentration is greater than 130% (150% for the low-level CCV) for a particular method analyte, and Field Sample extracts show no detection for that method analyte, non-detects may be reported without re-analysis.**

10.7.4 REMEDIAL ACTION – Failure to meet CCV QC performance criteria may require remedial action. Major maintenance, such as cleaning the electrospray probe, atmospheric pressure ionization source, cleaning the mass analyzer, replacing the LC column, etc., requires recalibration (Sect 10.6) and verification of sensitivity by analyzing a CCV at or below the RL (Sect 10.7).

10.8 EXTRACT ANALYSIS

10.8.1 Establish operating conditions equivalent to those summarized in Tables 5-8 of Section 16. Instrument conditions and columns should be optimized prior to the initiation of the IDC.

10.8.2 Establish an appropriate retention time window for each analyte. This should be based on measurements of actual retention time variation for each method analyte in CAL standard solutions analyzed on the LC over the course of time. A value of plus or minus three times the standard deviation of the retention time obtained for each method analyte while establishing the initial calibration and completing the IDC can be used to calculate a suggested window size. However, the experience of the analyst should weigh heavily on the determination of the appropriate retention window size.

10.8.3 Calibrate the system by either the analysis of a calibration curve (Sect. 10.6) or by confirming the initial calibration is still valid by analyzing a CCV as described in Section 10.7. If establishing an initial calibration, complete the IDC as described in Section 13.2.

10.8.4 Begin analyzing Field Samples, including QC samples, at their appropriate frequency by injecting the same size aliquots, under the same conditions used to analyze the CAL standards.

10.8.5 At the conclusion of data acquisition, use the same software that was used in the calibration procedure to identify peaks of interest in predetermined retention time windows. Use the data system software to examine the ion abundances of the peaks in the chromatogram. Identify an analyte by comparison of its retention time with that of the corresponding method analyte peak in a reference standard.

10.8.6 Comparison of the MS/MS mass spectra is not particularly useful given the limited ±0.5 dalton mass range around a single product ion for each method analyte.

10.8.7 The analyst must not extrapolate beyond the established calibration range. If an analyte peak area exceeds the range of the initial calibration curve, the extract may be diluted with 96%:4% vol/vol) methanol:water solution and the appropriate amount of IS added to match the original concentration. Re-inject the diluted extract. Incorporate the dilution factor into the final concentration calculations. Acceptable SUR performance (Sect. 9.5.1.1) should be determined from the undiluted sample extract. The resulting data should be documented as a dilution, with an increased RL.

11. Data Evaluation, Calculations and Reporting

11.1 Complete chromatographic resolution is not necessary for accurate and precise measurements of analyte concentrations using MS/MS. In validating this method, concentrations were calculated by measuring the product ions listed in Table 8. Other ions may be selected at the discretion of the analyst.

11.2 Calculate analyte and SUR concentrations using the multipoint calibration established in Section 10.6. Do not use daily calibration verification data to quantitate analytes in samples. Adjust final analyte concentrations to reflect the actual sample volume determined in Section 10.5.

11.3 Prior to reporting the data, the chromatogram should be reviewed for any incorrect peak identification or poor integration.

11.4 PFHxS, PFOS, NMeFOSAA, and NEtFOSAA have multiple chromatographic peaks using the LC conditions in Table 5 due to the linear and branch isomers of these compounds (Sect. 10.6.4.1). The areas of all the linear and branched isomer peaks observed in the CAL standards for each of these analytes must be summed and the concentrations reported as a total for each of these analytes.

11.5 Calculations must utilize all available digits of precision, but final reported concentrations should be rounded to an appropriate number of significant figures (one digit of uncertainty), typically two, and not more than three significant figures.

12. Contingencies for Handling Out-of-Control Data or Unacceptable Data

12.1 Section 9.0 outlines sample batch QC acceptance criteria. If non-compliant organic compound results are to be reported, the Organic Section Head and/or the Laboratory Director, and the Operations Manager must approve the reporting of these results. The laboratory Project Manager shall be notified, and may choose to relay the non-compliance to the client, for approval, or other corrective action, such as re-sampling and re-analysis. The analyst, Data Reviewer, or Department Supervisor performing the secondary review initiates the project narrative, and the narrative must clearly document the non-compliance and provide a reason for acceptance of these results.

12.2 All results for the organic compounds of interest are reportable without qualification if extraction and analytical holding times are met, preservation requirements (including cooler temperatures) are met, all QC criteria defined in the table below are met, and matrix interference is not suspected during extraction or analysis of the samples. If any of the below QC parameters are not met, all associated samples must be evaluated for re-extraction and/or re-analysis.

13. Method Performance

13.1 Detection Limit Study (DL) / Limit of Detection Study (LOD) / Limit of Quantitation (LOQ)

13.1.1 The laboratory follows the procedure to determine the DL, LOD, and/or LOQ as outlined in Alpha SOP ID 1732. These studies performed by the laboratory are maintained on file for review.

13.2 Demonstration of Capability Studies

13.2.1 The IDC must be successfully performed prior to analyzing any Field Samples. Prior to conducting the IDC, the analyst must first generate an acceptable Initial Calibration following the procedure outlined in Section 10.6.

13.2.2 INITIAL DEMONSTRATION OF LOW SYSTEM BACKGROUND – Any time a new lot of SPE cartridges, solvents, centrifuge tubes, disposable pipets, and autosampler vials are used, it must be demonstrated that an MB is reasonably free of contamination and that the criteria in Section 9.2.1 are met. If an automated extraction system is used, an MB should be extracted on each port to ensure that all the valves and tubing are free from potential PFAS contamination.

13.2.3 INITIAL DEMONSTRATION OF PRECISION (IDP) – Prepare, extract, and analyze four to seven replicate LCSs fortified near the midrange of the initial calibration curve according to the procedure described in Section 10. Sample preservatives as described in Section 6.2.1 must be added to these samples. The relative standard deviation (RSD) of the results of the replicate analyses must be less than 20%.

13.2.4 INITIAL DEMONSTRATION OF ACCURACY (IDA) – Using the same set of replicate data generated for Section 13.2.3, calculate average recovery. The average recovery of the replicate values must be within ± 30% of the true value.

13.2.5 INITIAL DEMONSTRATION OF PEAK ASYMMETRY FACTOR – Peak asymmetry factors must be calculated using the equation in Section 9.10.1 for the first two eluting peaks (if only two analytes are being analyzed, both must be evaluated) in a mid-level CAL standard. The peak asymmetry factors must fall in the range of 0.8 to 1.5. See guidance in Section 10.6.4.1 if the calculated peak asymmetry factors do not meet the criteria.

13.2.6 Refer to Alpha SOP ID 1739 for further information regarding IDC/DOC Generation.

13.2.7 The analyst must make a continuing, annual, demonstration of the ability to generate acceptable accuracy and precision with this method.

14. Pollution Prevention and Waste Management

14.1 Refer to Alpha's Chemical Hygiene Plan and Hazardous Waste Management and Disposal SOP for further pollution prevention and waste management information.

14.2 This method utilizes SPE to extract analytes from water. It requires the use of very small volumes of organic solvent and very small quantities of pure analytes, thereby minimizing the potential hazards to both the analyst and the environment as compared to the use of large volumes of organic solvents in conventional liquid-liquid extractions.

14.3 The analytical procedures described in this method generate relatively small amounts of waste since only small amounts of reagents and solvents are used. The matrices of concern are finished drinking water or source water. However, laboratory waste management practices must be conducted consistent with all applicable rules and regulations, and that laboratories protect the air, water, and land by minimizing and controlling all releases from fume hoods and bench operations. Also, compliance is required with any sewage discharge permits and regulations, particularly the hazardous waste identification rules and land disposal restrictions.

15. Referenced Documents

15.1 Chemical Hygiene Plan – ID 2124

15.2 SOP ID 1732 Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) SOP

15.3 SOP ID 1739 Demonstration of Capability (DOC) Generation SOP

15.4 SOP ID 1728 Hazardous Waste Management and Disposal SOP

16. Attachments

Table 6: LC Method Conditions

Time (min)	2 mM Ammonium Acetate (5:95 MeOH/H_2O)	2 mM Ammonium Acetate (100% Methanol)
Initial	100.0	0.0
1.0	100.0	0.0
2.2	85.0	15.0
11	20.0	80.0
11.4	0.0	100.0
12.4	100.0	0.0
14.0	100.0	0.0
Waters Aquity UPLC ® BEHC_{18} 2.1 x 50 mm packed with 1.7 µm BEH C_{18} stationary phase Flow rate of 0.4 mL/min 2-5 µL injection		

Table 7: ESI-MS Method Conditions

ESI Conditions	
Polarity	Negative ion
Capillary needle voltage	.5 kV
Cone Gas Flow	20 L/hr
Nitrogen desolvation gas	1100 L/hr
Desolvation gas temp.	500 ºC

Table 8: Method Analyte Source, Retention Times (RTs), and IS References

Analyte	Peak #	IS# Ref
PFBS	1	2
PFHxA	3	1
HFPO-DA	5	1
PFHpA	6	1
PFHxS	7	2
ADONA	8	1
PFOA	10	1
PFNA	11	1
PFOS	12	2
PFDA	14	1
9CL-PF3ONS	15	1
NMeFOSAA	17	3
PFUnA	18	3
NEtFOSAA	20	1
PFDoA	21	1
11CL-PFOUdS	22	1
PFTrDA	23	1
PFTA	24	1
^{13}C-PFHxA	2	1
^{13}C-HFPO-DA	4	1
^{13}C-PFDA	13	1
d_5-NEtFOSAA	19	3
^{13}C-PFOA-IS#1	9	-
^{13}C-PFOS-IS#2	10	-
d_3-NMeFOSAA-IS#3	16	-

Table 9: MS/MS Method Conditions

Segment[a]	Analyte	Precursor Ion [b] (m/z)	Product Ion [b,c] (m/z)
1	PFBS	299	80
2	PFHxA	313	269
4	HFPO-DA	285	169
5	PFHpA	363	319
6	PFHxS [e]	399	80
7	ADONA	377	251
9	PFOA	413	369
10	PFNA	463	419
11	9CL-PF3ONS	531	351
13	PFOS [e]	499	80
15	PFDA	513	469
17	NMeFOSAA [e]	570	419
19	NEtFOSAA [e]	584	419
20	11CL-PFOUdS	631	451
21	PFUnA	563	519
22	PFDoA	613	569
23	PFTrDA	663	619
24	PFTA	713	669
2	^{13}C-PFHxA	315	270
3	^{13}C-HFPO-DA	287	169
14	^{13}C-PFDA	515	470
16	d_5-NEtFOSAA	589	419
8	^{13}C-PFOA	415	370
12	^{13}C-PFOS	503	80
18	d_3-NMeFOSAA	573	419

[a] Segments are time durations in which single scan events occur; segments overlap where R.T. dictate.
[b] Precursor and product ions listed in this table are nominal masses. During MS and MS/MS optimization, the analyst should determine the precursor and product ion masses to one decimal place by locating the apex of the mass spectral peak place. These precursor and product ion masses (with one decimal place) should be used in the MS/MS method for all analyses.
[c] Ions used for quantitation purposes.
[d] Argon used as collision gas at a flow rate of 0.4 mL/min
[e] Analyte has multiple resolved chromatographic peaks due to linear and branched isomers. All peaks summed for quantitation purposes.

Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (LC/MS/MS)

Reference: EPA Method 537, Version 1.1, September 2009, EPA Document #: EPA/600/R-08/09

EPA Method 537.1, Version 1, November 2018, EPA Document #: EPA/600/R-18/352

Department of Defense, Quality Systems Manual for Environmental Laboratories, Version 5.2, .2019

1. Scope and Application

Matrices: Drinking water, Non-potable Water, and Soil Matrices

Definitions: Refer to Alpha Analytical Quality Manual.

1.1 This is a liquid chromatography/tandem mass spectrometry (LC/MS/MS) method for the determination of selected perfluorinated alkyl substances (PFAS) in Non-Drinking Water and soil Matrices. Accuracy and precision data have been generated in reagent water, and finished ground and surface waters for the compounds listed in Table 1.

1.2 The data report packages present the documentation of any method modification related to the samples tested. Depending upon the nature of the modification and the extent of intended use, the laboratory may be required to demonstrate that the modifications will produce equivalent results for the matrix. Approval of all method modifications is by one or more of the following laboratory personnel before performing the modification: Area Supervisor, Department Supervisor, Laboratory Director, or Quality Assurance Officer.

1.3 This method is restricted to use by or under the supervision of analysts experienced in the operation of the LC/MS/MS and in the interpretation of LC/MS/MS data. Each analyst must demonstrate the ability to generate acceptable results with this method by performing an initial demonstration of capability.

2. Summary of Method

2.1 A 250-mL water sample is fortified with extracted internal standards (EIS) and passed through a solid phase extraction (WAX) cartridge containing a mixed mode, Weak Anion Exchange, reversed phase, water-wettable polymer to extract the method analytes and isotopically-labeled compounds. The compounds are eluted from the solid phase in two fractions with methanol followed by a small amount of 2% ammonium hydroxide in methanol solution. The extract is concentrated with nitrogen in a heated water bath, and then adjusted to a 1-mL volume with 80:20% (vol/vol) methanol:water. A 3 µl injection is made into an LC equipped with a C18 column that is interfaced to an MS/MS. The analytes are separated and identified by comparing the acquired mass spectra and retention times to reference spectra and retention times for calibration standards acquired under identical LC/MS/MS conditions. The concentration of each analyte is determined by using the isotope dilution technique. Extracted Internal Standards (EIS) analytes are used to monitor the extraction efficiency of the method analytes.

2.2 Method Modifications from Reference

None.

Table 1

Parameter	Acronym	CAS
PERFLUOROALKYL ETHER CARBOXYLIC ACIDS (PFECAs)		
Tetrafluoro-2-(heptafluoropropoxy)propanoic acid	HFPO-DA	62037-80-3
4,8-dioxa-3H-perfluorononanoic acid	ADONA	919005-14-4
PERFLUOROALKYLCARBOXILIC ACIDS (PFCAs)		
Perfluorobutanoic acid	PFBA	375-22-4
Perfluoropentanoic acid	PFPeA	2706-90-3
Perfluorohexanoic acid	PFHxA *	307-24-4
Perfluoroheptanoic acid	PFHpA *	375-85-9
Perfluorooctanoic acid	PFOA *	335-67-1
Perfluorononanoic acid	PFNA *	375-95-1
Perfluorodecanoic acid	PFDA *	335-76-2
Perfluoroundecanoic acid	PFUnA *	2058-94-8
Perfluorododecanoic acid	PFDoA *	307-55-1
Perfluorotridecanoic acid	PFTrDA *	72629-94-8
Perfluorotetradecanoic acid	PFTA *	376-06-7
Perfluorohexadecanoic acid	PFHxDA	67905-19-5
Perfluorooctadecanoic acid	PFODA	16517-11-6
PERFLUOROALKYLSULFONATES (PFASs)		
Perfluorobutanesulfonic acid	PFBS *	375-73-5
Perfluoropentanesulfonic acid	PFPeS	2706-91-4
Perfluorohexanesulfonic acid	PFHxS *	355-46-4
Perfluoroheptanesulfonic acid	PFHpS	375-92-8
Perfluorooctanesulfonic acid	PFOS *	1763-23-1
Perfluorononanesulfonic acid	PFNS	68259-12-1
Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluorododecanesulfonic acid	PFDoS	79780-39-5

*** also reportable via the standard 537 method**

Table 1 Cont.

Parameter	Acronym	CAS
CHLORO-PERFLUOROALKYLSULFONATE		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	763051-92-9
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid	9Cl-PF3ONS	756426-58-1
PERFLUOROOCTANESULFONAMIDES (FOSAs)		
Perfluorooctanesulfonamide	PFOSA	754-91-6
N-methylperfluoro-1-octanesulfonamide	NMeFOSA	31506-32-8
N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	4151-50-2
TELOMER SULFONATES		
1H,1H,2H,2H-perfluorohexane sulfonate (4:2)	4:2FTS	27619-93-8
1H,1H,2H,2H-perfluorooctane sulfonate (6:2)	6:2FTS	27619-97-2
1H,1H,2H,2H-perfluorodecane sulfonate (8:2)	8:2FTS	39108-34-4
1H,1H,2H,2H-perfluorododecane sulfonate (10:2)	10:2FTS	120226-60-0
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS		
N-methyl perfluorooctanesulfonamidoacetic acid	NMeFOSAA *	2355-31-9
N-ethyl perfluorooctanesulfonamidoacetic acid	NEtFOSAA *	2991-50-6
NATIVE PERFLUOROOCTANESULFONAMIDOETHANOLS (FOSEs)		
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	24448-09-7
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	1691-99-2

*** also reportable via the standard 537 method**

3. Reporting Limits

The reporting limit for PFAS's is 2 ng/L for aqueous samples (20 ng/L for HFPO-DA) and 1 ng/g (10 ng/g for HFPO-DA) for soil samples.

4. Interferences

4.1 PFAS standards, extracts and samples should not come in contact with any glass containers or pipettes as these analytes can potentially adsorb to glass surfaces. PFAS analyte and EIS standards commercially purchased in glass ampoules are acceptable; however, all subsequent transfers or dilutions performed by the analyst must be prepared and stored in polypropylene containers.

4.2 Method interferences may be caused by contaminants in solvents, reagents (including reagent water), sample bottles and caps, and other sample processing hardware that lead to discrete artifacts and/or elevated baselines in the chromatograms. The method analytes in this method can also be found in many common laboratory supplies and equipment, such

as PTFE (polytetrafluoroethylene) products, LC solvent lines, methanol, aluminum foil, SPE sample transfer lines, etc. All items such as these must be routinely demonstrated to be free from interferences (less than 1/3 the RL for each method analyte) under the conditions of the analysis by analyzing laboratory reagent blanks as described in Section 9.2. **Subtracting blank values from sample results is not permitted.**

4.3 Matrix interferences may be caused by contaminants that are co-extracted from the sample. The extent of matrix interferences will vary considerably from source to source, depending upon the nature of the water. Humic and/or fulvic material can be co-extracted during SPE and high levels can cause enhancement and/or suppression in the electrospray ionization source or low recoveries on the SPE sorbent. Total organic carbon (TOC) is a good indicator of humic content of the sample.

4.4 SPE cartridges can be a source of interferences. The analysis of field and laboratory reagent blanks can provide important information regarding the presence or absence of such interferences. Brands and lots of SPE devices should be tested to ensure that contamination does not preclude analyte identification and quantitation.

5. Health and Safety

5.1 The toxicity or carcinogenicity of each reagent and standard used in this method is not fully established; however, each chemical compound should be treated as a potential health hazard. From this viewpoint, exposure to these chemicals must be reduced to the lowest possible level by whatever means available. A reference file of material safety data sheets is available to all personnel involved in the chemical analysis. Additional references to laboratory safety are available in the Chemical Hygiene Plan.

5.2 All personnel handling environmental samples known to contain or to have been in contact with municipal waste must follow safety practices for handling known disease causative agents.

5.3 PFOA has been described as “likely to be carcinogenic to humans.” Pure standard materials and stock standard solutions of these method analytes should be handled with suitable protection to skin and eyes, and care should be taken not to breathe the vapors or ingest the materials.

6. Sample Collection, Preservation, Shipping and Handling

6.1 Sample Collection for Aqueous Samples

6.1.1 Samples must be collected in two (2) 250-mL high density polyethylene (HDPE) container with an unlined plastic screw cap.

6.1.2 The sample handler must wash their hands before sampling and wear nitrile gloves while filling and sealing the sample bottles. PFAS contamination during sampling can occur from a number of common sources, such as food packaging and certain foods and beverages. Proper hand washing and wearing nitrile gloves will aid in minimizing this type of accidental contamination of the samples.

6.1.3 Open the tap and allow the system to flush until the water temperature has stabilized (approximately 3 to 5 min). Collect samples from the flowing system.

6.1.4 Fill sample bottles. Samples do not need to be collected headspace free.

6.1.5 After collecting the sample and cap the bottle. Keep the sample sealed from time of collection until extraction.

6.1.6 Field Reagent Blank (FRB)

6.1.6.1 A FRB must be handled along with each sample set. The sample set is composed of samples collected from the same sample site and at the same time. At the laboratory, fill the field blank sample bottle with reagent water and preservatives, seal, and ship to the sampling site along with the sample bottles. For each FRB shipped, an empty sample bottle (no preservatives) must also be shipped. At the sampling site, the sampler must open the shipped FRB and pour the reagent water into the empty shipped sample bottle, seal and label this bottle as the FRB. The FRB is shipped back to the laboratory along with the samples and analyzed to ensure that PFAS's were not introduced into the sample during sample collection/handling.

The reagent water used for the FRBs must be initially analyzed for method analytes as a MB and must meet the MB criteria in Section 9.2.1 prior to use. This requirement will ensure samples are not being discarded due to contaminated reagent water rather than contamination during sampling.

6.2 Sample Collection for Soil and Sediment samples.

Grab samples are collected in polypropylene containers. Sample containers and contact surfaces containing PTFE shall be avoided.

6.3 Sample Preservation

Not applicable.

6.4 Sample Shipping

Samples must be chilled during shipment and must not exceed 10 °C during the first 48 hours after collection. Sample temperature must be confirmed to be at or below 10 °C when the samples are received at the laboratory. Samples stored in the lab must be held at or below 6 °C until extraction, but should not be frozen.

NOTE: Samples that are significantly above 10° C, at the time of collection, may need to be iced or refrigerated for a period of time, in order to chill them prior to shipping. This will allow them to be shipped with sufficient ice to meet the above requirements.

6.5 Sample Handling

6.5.1 Holding Times

6.5.1.1 Water samples should be extracted as soon as possible but must be extracted within 14 days. Soil samples should be extracted within 28 days. Extracts are stored at < 10 ° C and analyzed within 28 days after extraction.

7. Equipment and Supplies

7.1 SAMPLE CONTAINERS – 250-mL high density polyethylene (HDPE) bottles fitted with unlined screw caps. Sample bottles must be discarded after use.

7.2 POLYPROPYLENE BOTTLES – 4-mL narrow-mouth polypropylene bottles.

7.3 CENTRIFUGE TUBES – 50-mL conical polypropylene tubes with polypropylene screw caps for storing standard solutions and for collection of the extracts.

7.4 AUTOSAMPLER VIALS – Polypropylene 0.7-mL autosampler vials with polypropylene caps.

7.4.1 NOTE: Polypropylene vials and caps are necessary to prevent contamination of the sample from PTFE coated septa. However, polypropylene caps do not reseal, so evaporation occurs after injection. Thus, multiple injections from the same vial are not possible.

7.5 POLYPROPYLENE GRADUATED CYLINDERS – Suggested sizes include 25, 50, 100 and 1000-mL cylinders.

7.6 Auto Pipets – Suggested sizes include 5, 10, 25, 50, 100, 250, 500, 1000, 5000 and 10,000-µls.

7.7 PLASTIC PIPETS – Polypropylene or polyethylene disposable pipets.

7.8 ANALYTICAL BALANCE – Capable of weighing to the nearest 0.0001 g.

7.9 SOLID PHASE EXTRACTION (SPE) APPARATUS FOR USING CARTRIDGES

7.9.1 SPE CARTRIDGES – 0.5 g SPE cartridges containing a reverse phase copolymer characterized by a weak anion exchanger (WAX) sorbent phase.

7.9.2 VACUUM EXTRACTION MANIFOLD – A manual vacuum manifold with large volume sampler for cartridge extractions, or an automatic/robotic sample preparation system designed for use with SPE cartridges, may be used if all QC requirements discussed in Section 9 are met. Extraction and/or elution steps may not be changed or omitted to accommodate the use of an automated system. Care must be taken with automated SPE systems to ensure the PTFE commonly used in these systems does not contribute to unacceptable analyte concentrations in the MB (Sect. 9.2.1).

7.9.3 SAMPLE DELIVERY SYSTEM – Use of a polypropylene transfer tube system, which transfers the sample directly from the sample container to the SPE cartridge, is recommended, but not mandatory. Standard extraction manifolds come equipped with PTFE transfer tube systems. These can be replaced with 1/8” O.D. x 1/16” I.D. polypropylene or polyethylene tubing cut to an appropriate length to ensure no sample contamination from the sample transfer lines. Other types of non-PTFE tubing may be used provided it meets the MB (Sect. 9.2.1) and LCS (Sect. 9.3) QC requirements. The PTFE transfer tubes may be used, but an MB must be run on each PFTE transfer tube and the QC requirements in Section 13.2.2 must be met. In the case of automated SPE, the removal of PTFE lines may not be feasible; therefore, MBs will need to be rotated among the ports and must meet the QC requirements of Sections 13.2.2 and 9.2.1.

7.10 Extract Clean-up Cartridge – 250 mg 6ml SPE Cartridge containing graphitized polymer carbon

7.11 EXTRACT CONCENTRATION SYSTEM – Extracts are concentrated by evaporation with nitrogen using a water bath set no higher than 65 °C.

7.12 LABORATORY OR ASPIRATOR VACUUM SYSTEM – Sufficient capacity to maintain a vacuum of approximately 10 to 15 inches of mercury for extraction cartridges.

7.13 LIQUID CHROMATOGRAPHY (LC)/TANDEM MASS SPECTROMETER (MS/MS) WITH DATA SYSTEM

7.13.1 LC SYSTEM – Instrument capable of reproducibly injecting up to 10-µL aliquots, and performing binary linear gradients at a constant flow rate near the flow rate used for development of this method (0.4 mL/min). The LC must be capable of pumping the water/methanol mobile phase without the use of a degasser which pulls vacuum on the mobile phase bottle (other types of degassers are acceptable). Degassers which pull vacuum on the mobile phase bottle will volatilize the ammonium acetate mobile phase causing the analyte peaks to shift to earlier retention times over the course of the analysis batch. The usage of a column heater is optional.

NOTE: During the course of method development, it was discovered that while idle for more than one day, PFAS's built up in the PTFE solvent transfer lines. To prevent long delays in purging high levels of PFAS's from the LC solvent lines, they were replaced with PEEK tubing and the PTFE solvent frits were replaced with stainless steel frits. It is not possible to remove all PFAS background contamination, but these measures help to minimize their background levels.

7.13.2 LC/TANDEM MASS SPECTROMETER – The LC/MS/MS must be capable of negative ion electrospray ionization (ESI) near the suggested LC flow rate of 0.4 mL/min. The system must be capable of performing MS/MS to produce unique product ions for the method analytes within specified retention time segments. A minimum of 10 scans across the chromatographic peak is required to ensure adequate precision.

7.13.3 DATA SYSTEM – An interfaced data system is required to acquire, store, reduce, and output mass spectral data. The computer software should have the capability of processing stored LC/MS/MS data by recognizing an LC peak within any given retention time window. The software must allow integration of the ion abundance of any specific ion within specified time or scan number limits. The software must be able to calculate relative response factors, construct linear regressions or quadratic calibration curves, and calculate analyte concentrations.

7.13.4 ANALYTICAL COLUMN – An LC BEH C_{18} column (2.1 x 50 mm) packed with 1.7 µm d_p C_{18} solid phase particles was used. Any column that provides adequate resolution, peak shape, capacity, accuracy, and precision (Sect. 9) may be used.

8. Reagents and Standards

8.1 GASES, REAGENTS, AND SOLVENTS – Reagent grade or better chemicals should be used.

8.1.1 REAGENT WATER – Purified water which does not contain any measurable quantities of any method analytes or interfering compounds greater than 1/3 the RL for each method analyte of interest. Prior to daily use, at least 3 L of reagent water should be flushed from the purification system to rinse out any build-up of analytes in the system's tubing.

8.1.2 METHANOL (CH_3OH, CAS#: 67-56-1) – High purity, demonstrated to be free of analytes and interferences.

8.1.3 AMMONIUM ACETATE ($NH_4C_2H_3O_2$, CAS#: 631-61-8) – High purity, demonstrated to be free of analytes and interferences.

8.1.4 ACETIC ACID (H_3CCOOH, CAS#: 64-19-7) - High purity, demonstrated to be free of analytes and interferences.

8.1.5 1M AMMONIUM ACETATE/REAGENT WATER – High purity, demonstrated to be free of analytes and interferences.

8.1.6 2mM AMMONIUM ACETATE/METHANOL:WATER (5:95) – To prepare, mix 2 ml of 1M AMMONIUM ACETATE,1 ml ACETIC ACID and 50 ml METHANOL into l Liter of REAGENT WATER.

8.1.7 Methanol/Water (80:20) – To prepare a 1 Liter bottle, mix 200 ml of REAGENT WATER with 800 ml of METHANOL.

8.1.8 AMMONIUM HYDROXIDE (NH_3, CAS#: 1336-21-6) – High purity, demonstrated to be free of analytes and interferences.

8.1.9 Sodium Acetate ($NaOOCCH_3$, CAS#: 127-09-3) – High purity, demonstrated to be free of analytes and interferences.

8.1.10 25 mM Sodium Acetate Buffer – To prepare 250mls, dissolve .625 grams of sodium acetate into 100 mls of reagent water. Add 4 mls Acetic Acid and adjust the final volume to 250 mls with reagent water.

8.1.11 NITROGEN – Used for the following purposes: Nitrogen aids in aerosol generation of the ESI liquid spray and is used as collision gas in some MS/MS instruments. The nitrogen used should meet or exceed instrument manufacturer's specifications. In addition, Nitrogen is used to concentrate sample extracts (Ultra High Purity or equivalent).

8.1.12 ARGON – Used as collision gas in MS/MS instruments. Argon should meet or exceed instrument manufacturer's specifications. Nitrogen gas may be used as the collision gas provided sufficient sensitivity (product ion formation) is achieved.

8.2 STANDARD SOLUTIONS – When a compound purity is assayed to be 96% or greater, the weight can be used without correction to calculate the concentration of the stock standard. PFAS analyte and IS standards commercially purchased in glass ampoules are acceptable; however, all subsequent transfers or dilutions performed by the analyst must be prepared and stored in polypropylene containers. Standards for sample fortification generally should be prepared in the smallest volume that can be accurately measured to minimize the addition of excess organic solvent to aqueous samples.

NOTE: Stock standards and diluted stock standards are stored at ≤4 °C.

8.2.1 ISOTOPE DILUTION Extracted Internal Standard (ID EIS) STOCK SOLUTIONS - ID EIS stock standard solutions are stable for at least 6 months when stored at 4 °C. The stock solution is purchased at a concentration of 1000 ng/mL.

8.2.2 ISOTOPE DILUTION Extracted Internal Standard PRIMARY DILUTION STANDARD (ID EIS PDS) – Prepare the ID EIS PDS at a concentration of 500 ng/mL. The ID PDS is prepared in 80:20% (vol/vol) methanol:water. The ID PDS is stable for 6 months when stored at ≤4 °C.

Table 2

Isotope Labeled Standard	Conc. of EIS Stock (ng/mL)	Vol. of EIS Stock (mL)	Final Vol. of EIS PDS (mL)	Final Conc. of EIS PDS (ng/mL)
M4PFBA	1000	1.0	2.0	500
M5PFPeA	1000	1.0	2.0	500
M5PFHxA	1000	1.0	2.0	500
M4PFHpA	1000	1.0	2.0	500
M8PFOA	1000	1.0	2.0	500
M9PFNA	1000	1.0	2.0	500
M6PFDA	1000	1.0	2.0	500
M7PFUdA	1000	1.0	2.0	500
MPFDoA	1000	1.0	2.0	500
M2PFTeDA	1000	1.0	2.0	500
M2PFHxDA	50,000	.02	2.0	500
d3-N-MeFOSA	50,000	.02	2.0	500
d5-N-EtFOSA	50,000	.02	2.0	500
d7-N-MeFOSE	50,000	.02	2.0	500
d9-N-EtFOSE	50,000	.02	2.0	500
M8FOSA	1000	1.0	2.0	500
d3-N-MeFOSAA	1000	1.0	2.0	500
d5-N-EtFOSAA	1000	1.0	2.0	500
M3PFBS	929	1.0	2.0	464.5
M3PFHxS	946	1.0	2.0	473
M8PFOS	957	1.0	2.0	478.5
M2-4:2FTS	935	1.0	2.0	467.5
M2-6:2FTS	949	1.0	2.0	474.5
M2-8:2FTS	958	1.0	2.0	479
M3HFPO-DA	50,000	.4	2.0	10,000

8.2.3 ANALYTE STOCK STANDARD SOLUTION – Analyte stock standards are stable for at least 6 months when stored at 4 °C. When using these stock standards to prepare a PDS, care must be taken to ensure that these standards are at room temperature and adequately vortexed.

8.2.4 Analyte Secondary Spiking Standard Prepare the spiking solution of additional add on components for project specific requirements only. ANALYTE PRIMARY SPIKING STANDARD – Prepare the spiking standard at a concentration of 500 ng/mL in methanol. The spiking standard is stable for at least two months when stored in polypropylene centrifuge tubes at room temperature.

Table 3

Analyte	Conc. of IS Stock (ng/mL)	Vol. of IS Stock (mL)	Final Vol. of IS PDS (mL)	Final Conc. of IS PDS (ng/mL)
PFBA	2000	1	4	500
PFPeA	2000	1	4	500
PFHxA	2000	1	4	500
PFHpA	2000	1	4	500
PFOA	2000	1	4	500
PFNA	2000	1	4	500
PFDA	2000	1	4	500
PFUdA	2000	1	4	500
PFDoA	2000	1	4	500
PFTrDA	2000	1	4	500
PFTeDA	2000	1	4	500
FOSA	2000	1	4	500
N-MeFOSAA	2000	1	4	500
N-EtFOSAA	2000	1	4	500
L-PFBS	1770	1	4	442.5
L-PFPeS	1880	1	4	470
L-PFHxSK	1480	1	4	370
Br-PFHxSK	344	1	4	86
L-PFHpS	1900	1	4	475
L-PFOSK	1460	1	4	365
Br-PFOSK	391	1	4	97.75
L-PFNS	1920	1	4	480
L-PFDS	1930	1	4	482.5
4:2FTS	1870	1	4	467.5
6:2FTS	1900	1	4	475
8:2FTS	1920	1	4	480

8.2.5 Analyte Secondary Spiking Standard Prepare the spiking solution of additional add on components for project specific requirements only.

Table 4

Analyte	Conc. of IS Stock (ng/mL)	Vol. of IS Stock (mL)	Final Vol. of IS PDS (mL)	Final Conc. of IS PDS (ng/mL)
ADONA	2000	1	4	500
PFHxDA	2000	1	4	500
PFODA	2000	1	4	500
HFPO-DA	100,000	.4	4	10,000
9ClPF3ONS	50,000	0.04	4	500
11ClPF3OUdS	50,000	0.04	4	500

8.2.6 LOW, MEDIUM AND HIGH LEVEL LCS – The LCS's will be prepared at the following concentrations and rotated per batch; 2 ng/L, 40 ng/L, 500 ng/l for drinking waters. The analyte PDS contains all the method analytes of interest at various concentrations in methanol. The analyte PDS has been shown to be stable for six months when stored at ≤4 °C.

8.2.7 Isotope Dilution Labeled Recovery Stock Solutions (ID REC) – ID REC Stock solutions are stable for at least 6 months when stored at 4 °C. The stock solution is purchased at a concentration of 1000 ng/mL.

8.2.8 Isotope Dilution Labeled Recovery Primary Dilution Standard (ID REC PDS) - Prepare the ID REC PDS at a concentration of 500 ng/mL. The ID REC PDS is prepared in 80:20% (vol/vol) methanol:water. The ID REC PDS is stable for at least six months when stored in polypropylene centrifuge tubes at ≤4 °C.

Table 5

Analyte	Conc. of REC Stock (ng/mL)	Vol. of REC Stock (mL)	Final Vol. of REC PDS (mL)	Final Conc. of REC PDS (ng/mL)
M2PFOA	2000	1	4	500
M2PFDA	2000	1	4	500
M3PFBA	2000	1	4	500
M4PFOS	2000	1	4	500

8.2.9 CALIBRATION STANDARDS (CAL) –

Current Concentrations (ng/mL): 0.5, 1.0, 5.0, 10.0, 50.0, 125, 150, 250, 500

Prepare the CAL standards over the concentration range of interest from dilutions of the analyte PDS in methanol containing 20% reagent water. 20 µl of the EIS PDS and REC PDS are added to the CAL standards to give a constant concentration of 10 ng/ml. The lowest concentration CAL standard must be at or below the RL (2 ng/L), which may depend on system sensitivity. The CAL standards may also be used as CCVs (Sect. 9.8). To make calibration stock standards:

Table 6

Calibration Standard Concentration	Final Aqueous Cal STD Level Concentration	Final Soil Cal STD Level Concentration	24 compound stock added (ul)	PFHxDA Stock added (ul)	500 ng/ml PFHxDA dilution added (ul)	PFODA Stock added (ul)	500 ng/ml PFODA dilution added (ul)	ADONA, HFPO-DA, 11Cl-PF3OUdS, 9Cl-PF3ONS Stock added (ul)	500 ng/ml ADONA dilution added (ul)	Final Volume in MeOH/H_2O (82:20)
.5 ng/ml	2 ng/L	.25 ng/g	6.25		25		25		25	25 mls
1 ng/ml	4 ng/L	.5 ng/g	5		20		20		20	10 mls
5 ng/ml	20 ng/L	1 ng/g	25		100		100		100	10 mls
10 ng/ml	40 ng/L	5 ng/g	125	5		5		5		25 mls

50 ng/ml	200 ng/L	25 ng/g	250	10		10		10		10 mls
125 ng/ml	500 ng/L	62.5 ng/g	625	25		25		25		10 mls
150 ng/ml	600 ng/L	75 ng/g	750	30		30		30		10 mls
250 ng/ml	1000 ng/L	125 ng/g	625							5 mls
500 ng/ml	2000 ng/L	250 ng/g	1250							5 mls

9. Quality Control

The laboratory must maintain records to document the quality of data that is generated. Ongoing data quality checks are compared with established performance criteria to determine if the results of analyses meet the performance characteristics of the method.

9.1 MINIMUM REPORTING LIMIT (MRL) CONFIRMATION

9.1.1 Fortify, extract, and analyze seven replicate LCSs at 2 ng/l. Calculate the mean measured concentration (*Mean*) and standard deviation for these replicates. Determine the Half Range for the prediction interval of results (HR_{PIR}) using the equation below

$$HR_{PIR} = 3.963s$$

Where:

s = the standard deviation
3.963 = a constant value for seven replicates.

9.1.2 Confirm that the upper and lower limits for the Prediction Interval of Result (*PIR* = *Mean* ± HR_{PIR}) meet the upper and lower recovery limits as shown below

The Upper PIR Limit must be ≤150% recovery.

$$\frac{Mean + HR_{PIR}}{Fortified\ Concentration} \times 100\% \leq 150\%$$

The Lower PIR Limit must be ≥ 50% recovery.

$$\frac{Mean - HR_{PIR}}{Fortified\ Concentration} \times 100\% \geq 50\%$$

9.1.3 The RL is validated if both the Upper and Lower PIR Limits meet the criteria described above. If these criteria are not met, the RL has been set too low and must be determined again at a higher concentration.

9.2 Blank(s)

9.2.1 **METHOD BLANK (MB) -** A Method Blank (MB) is required with each extraction batch to confirm that potential background contaminants are not interfering with the identification or quantitation of method analytes. Prep and analyze a MB for every 20 samples. If the MB produces a peak within the retention time window of any analyte that would prevent the determination of that analyte, determine the source of contamination and eliminate the interference before processing samples. Background contamination must be reduced to an acceptable level before proceeding. Background from method analytes or other contaminants that

interfere with the measurement of method analytes must be below the RL. If the method analytes are detected in the MB at concentrations equal to or greater than this level, then all data for the problem analyte(s) must be considered invalid for all samples in the extraction batch. Because background contamination is a significant problem for several method analytes, it is highly recommended that the analyst maintain a historical record of MB data.

9.2.2 **FIELD REAGENT BLANK (FRB)** - The purpose of the FRB is to ensure that PFAS's measured in the Field Samples were not inadvertently introduced into the sample during sample collection/handling. Analysis of the FRB is required only if a Field Sample contains a method analyte or analytes at or above the RL. The FRB is processed, extracted and analyzed in exactly the same manner as a Field Sample.

9.3 Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicates (LCSD)

9.3.1 An LCS is required with each extraction batch. The fortified concentration of the LCS may be rotated between low, medium, and high concentrations from batch to batch. Default limits of 50-150% of the true value may be used for analytes until sufficient replicates have been analyzed to generate proper control limits. Calculate the percent recovery (%*R*) for each analyte using the equation

$$\%R = \frac{A \times 100}{B}$$

Where:

A = measured concentration in the fortified sample
B =fortification concentration.

9.3.2 Where applicable, LCSD's are to be extracted and analyzed. The concentration and analyte recovery criteria for the LCSD must be the same as the batch LCS The RSD's must fall within ≤30% of the true value for medium and high level replicates, and ≤50% for low level replicates. Calculate the relative percent difference (RPD) for duplicate MSs (MS and MSD) using the equation

$$RPD = \frac{|LCS - LCSD|}{(LCS + LCSD) / 2} \times 100$$

9.3.3 **If the LCS and or LCSD results do not meet these criteria for method analytes, then all data for the problem analyte(s) must be considered invalid for all samples in the extraction batch.**

9.4 Labeled Recovery Standards (REC)

The analyst must monitor the peak areas of the REC(s) in all injections during each analysis day.

9.5 Extracted Internal Standards (EIS)

9.5.1 The EIS standard is fortified into all samples, CCVs, MBs, LCSs, MSs, MSDs, FD, and FRB prior to extraction. It is also added to the CAL standards. The EIS is a means of assessing method performance from extraction to final

chromatographic measurement. Calculate the recovery (%R) for the EIS using the following equation

$$\%R = (A / B) \times 100$$

Where:

A = calculated EIS concentration for the QC or Field Sample
B = fortified concentration of the EIS.

9.5.2 Default limits of 50-150% may be used for analytes until sufficient replicates have been analyzed to generate proper control limits. A low or high percent recovery for a sample, blank, or CCV does not require discarding the analytical data but it may indicate a potential problem with future analytical data. When EIS recovery from a sample, blank, or CCV are outside control limits, check 1) calculations to locate possible errors, 2) standard solutions for degradation, 3) contamination, and 4) instrument performance. For CCVs and QC elements spiked with all target analytes, if the recovery of the corresponding target analytes meet the acceptance criteria for the EIS in question, the data can be used but all potential biases in the recovery of the EIS must be documented in the sample report. If the associated target analytes do not meet the acceptance criteria,the data must be reanalyzed.

9.6 Matrix Spike (MS)

9.6.1 Analysis of an MS is required in each extraction batch and is used to determine that the sample matrix does not adversely affect method accuracy. Assessment of method precision is accomplished by analysis of a Field Duplicate (FD) (Sect. 9.6); however, infrequent occurrence of method analytes would hinder this assessment. If the occurrence of method analytes in the samples is infrequent, or if historical trends are unavailable, a second MS, or MSD, must be prepared, extracted, and analyzed from a duplicate of the Field Sample. Extraction batches that contain MSDs will not require the extraction of a field sample duplicate. If a variety of different sample matrices are analyzed regularly, for example, drinking water from groundwater and surface water sources, method performance should be established for each. Over time, MS data should be documented by the laboratory for all routine sample sources.

9.6.2 Within each extraction batch, a minimum of one Field Sample is fortified as an MS for every 20 Field Samples analyzed. The MS is prepared by spiking a sample with an appropriate amount of the Analyte Stock Standard (Sect. 8.2.3). Use historical data and rotate through the low, mid and high concentrations when selecting a fortifying concentration. Calculate the percent recovery (%*R*) for each analyte using the equation

$$\%R = \frac{(A - B)}{C} \times 100$$

Where:

A = measured concentration in the fortified sample
B = measured concentration in the unfortified sample
C = fortification concentration.

9.6.3 Analyte recoveries may exhibit matrix bias. For samples fortified at or above their native concentration, recoveries should range between 50-150%. If the accuracy of any analyte falls outside the designated range, and the laboratory performance for that analyte is shown to be in control in the LCS, the recovery is judged to be

matrix biased. The result for that analyte in the unfortified sample is labeled suspect/matrix to inform the data user that the results are suspect due to matrix effects.

9.7 Laboratory Duplicate

9.7.1 FIELD DUPLICATE OR LABORATORY FORTIFIED SAMPLE MATRIX DUPLICATE (FD or MSD) – Within each extraction batch (not to exceed 20 Field Samples), a minimum of one FD or MSD must be analyzed. Duplicates check the precision associated with sample collection, preservation, storage, and laboratory procedures. If method analytes are not routinely observed in Field Samples, an MSD should be analyzed rather than an FD.

9.7.2 Calculate the relative percent difference (*RPD*) for duplicate measurements (*FD1* and *FD2*) using the equation

$$RPD = \frac{|FD1 - FD2|}{(FD1 + FD2) / 2} \times 100$$

9.7.3 RPDs for FDs should be ≤30%. Greater variability may be observed when FDs have analyte concentrations that are within a factor of 2 of the RL. At these concentrations, FDs should have RPDs that are ≤50%. If the RPD of any analyte falls outside the designated range, and the laboratory performance for that analyte is shown to be in control in the CCV, the recovery is judged to be matrix biased. The result for that analyte in the unfortified sample is labeled suspect/matrix to inform the data user that the results are suspect due to matrix effects.

9.7.4 If an MSD is analyzed instead of a FD, calculate the relative percent difference (RPD) for duplicate MSs (MS and MSD) using the equation

$$RPD = \frac{|MS - MSD|}{(MS + MSD) / 2} \times 100$$

9.7.5 RPDs for duplicate MSs should be ≤30% for samples fortified at or above their native concentration. Greater variability may be observed when MSs are fortified at analyte concentrations that are within a factor of 2 of the RL. MSs fortified at these concentrations should have RPDs that are ≤50% for samples fortified at or above their native concentration. If the RPD of any analyte falls outside the designated range, and the laboratory performance for that analyte is shown to be in control in the LCSD where applicable, the result is judged to be matrix biased. If no LCSD is present, the associated MS and MSD are to be re-analyzed to determine if any analytical has occurred. If the resulting RPDs are still outside control limits, the result for that analyte in the unfortified sample is labeled suspect/matrix to inform the data user that the results are suspect due to matrix effects.

9.8 Initial Calibration Verification (ICV)

9.8.1 As part of the IDC (Sect. 13.2), and after each ICAL, analyze a QCS sample from a source different from the source of the CAL standards. If a second vendor is not available, then a different lot of the standard should be used. The QCS should be prepared and analyzed just like a CCV. Acceptance criteria for the QCS are identical to the CCVs; the calculated amount for each analyte must be ±

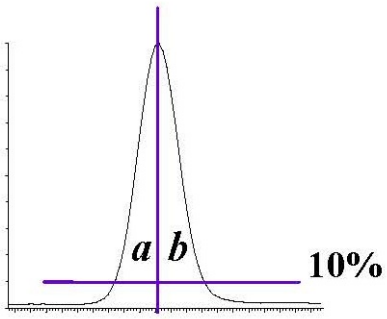
30% of the expected value. If measured analyte concentrations are not of acceptable accuracy, check the entire analytical procedureto locate and correct the problem.

9.9 Continuing Calibration Verification (CCV)

9.9.1 CCV Standards are analyzed at the beginning of each analysis batch, after every 10 Field Samples, and at the end of the analysis batch. See Section 10.7 for concentration requirements and acceptance criteria.

9.10 Method-specific Quality Control Samples

9.10.1 PEAK ASYMMETRY FACTOR – A peak asymmetry factor must be calculated using the equation below during the IDL and every time a calibration curve is generated. The peak asymmetry factor for the first two eluting peaks in a midlevel CAL standard (if only two analytes are being analyzed, both must be evaluated) must fall in the range of 0.8 to 1.5. Modifying the standard or extract composition to more aqueous content to prevent poor shape is not permitted. See guidance in Section 10.6.4.1 if the calculated peak asymmetry factors do not meet the criteria.



$$A_s = b / a$$

Where:

A_s = peak asymmetry factor
b = width of the back half of the peak measured (at 10% peak height) from the trailing edge of the peak to a line dropped perpendicularly from the peak apex
a = the width of the front half of the peak measured (at 10% peak height) from the leading edge of the peak to a line dropped perpendicularly from the apex.

9.11 Method Sequence

- CCV-LOW
- MB
- LCS
- LCSD
- MS
- Duplicate or MSD
- Field Samples (1-10)
- CCV-MID
- Field Samples (11-20)
- CCV-LOW

10. Procedure

10.1 Equipment Set-up

10.1.1 This procedure may be performed manually or in an automated mode using a robotic or automatic sample preparation device. If an automated system is used to prepare samples, follow the manufacturer's operating instructions, but all extraction and elution steps must be the same as in the manual procedure. Extraction and/or elution steps may not be changed or omitted to accommodate the use of an automated system. If an automated system is used, the MBs should be rotated among the ports to ensure that all the valves and tubing meet the MB requirements (Sect. 9.2).

10.1.2 Some of the PFAS's adsorb to surfaces, including polypropylene. Therefore, the aqueous sample bottles must be rinsed with the elution solvent (Sect 10.3.4) whether extractions are performed manually or by automation. The bottle rinse is passed through the cartridge to elute the method analytes and is then collected (Sect. 10.3.4).

10.1.3 **NOTE:** The SPE cartridges and sample bottles described in this section are designed as single use items and should be discarded after use. They may not be refurbished for reuse in subsequent analyses.

10.2 Sample Preparation and Extraction of Aqueous Samples

10.2.1 Samples are preserved, collected and stored as presented in Section 6.

The entire sample that is received must be sent through the SPE cartridge. In addition, the bottle must be solvent rinsed and this rinse must be sent through the SPE cartridge as well. The method blank (MB) and laboratory control sample (LCS) must be extracted in exactly the same manner (i.e., must include the bottle solvent rinse). It should be noted that a water rinse alone is not sufficient. This does not apply to samples with high concentrations of PFAS that are prepared using serial dilution and not SPE.

10.2.2 Determine sample volume. Weigh all samples to the nearest 1g. If visible sediment is present, centrifuge and decant into a new 250mL HDPE bottle and record the weight of the new container.

NOTE: Some of the PFAS's adsorb to surfaces, thus the sample volume may **NOT** be transferred to a graduated cylinder for volume measurement.

10.2.3 The MB, LCS and FRB may be prepared by measuring 250 mL of reagent water with a polypropylene graduated cylinder or filling a 250-mL sample bottle to near the top.

10.2.4 Adjust the QC and sample pH to 3 by adding acetic acid in water dropwise

10.2.5 Add 20 µL of the EIS PDS (Sect. 8.2.2) to each sample and QC, cap and invert to mix.

10.2.6 If the sample is an LCS, LCSD, MS, or MSD, add the necessary amount of analyte PDS (Sect. 8.2.3). Cap and invert each sample to mix.

10.3 Cartridge SPE Procedure

10.3.1 CARTRIDGE CLEAN-UP AND CONDITIONING – DO NOT allow cartridge packing material to go dry during any of the conditioning steps. Rinse each cartridge with 3 X 5 mL of 2% ammonium hydroxide in methanol, followed by 5mls of methanol. Next, rinse each cartridge with 5 mls of the 25 mM acetate buffer, followed by 15 mL of reagent water, without allowing the water to drop below the top edge of the packing. If the cartridge goes dry during the conditioning phase, the conditioning must be started over. Add 4-5 mL of reagent water to each cartridge, attach the sample transfer tubes (Sect. 7.9.3), turn on the vacuum, and begin adding sample to the cartridge.

10.3.2 SAMPLE EXTRACTON – Adjust the vacuum so that the approximate flow rate is approximately 4 mL/min. Do not allow the cartridge to go dry before all the sample has passed through.

10.3.3 SAMPLE BOTTLE AND CARTRIDGE RINSE – After the entire sample has passed through the cartridge, rinse the sample bottles with 4 ml reagent water followed by 4 ml 25 mM acetate buffer at pH 4 and draw the aliquot through the sample transfer tubes and the cartridges. Draw air or nitrogen through the cartridge for 5-10 min at high vacuum (10-15 in. Hg). **NOTE: If empty plastic reservoirs are used in place of the sample transfer tubes to pass the samples through the cartridges, these reservoirs must be treated like the transfer tubes. After the entire sample has passed through the cartridge, the reservoirs must be rinsed to waste with reagent water.**

10.3.4 SAMPLE BOTTLE AND CARTRIDGE ELUTION, Fraction 1 – Turn off and release the vacuum. Lift the extraction manifold top and insert a rack with collection tubes into the extraction tank to collect the extracts as they are eluted from the cartridges. Rinse the sample bottles with 12 mls of methanol and draw the aliquot through the sample transfer tubes and cartridges. Use a low vacuum such that the solvent exits the cartridge in a dropwise fashion.

SAMPLE BOTTLE AND CARTRIDGE ELUTION, Fraction 2 In a separate collection vial, rinse the sample bottles with 12 mL of 2% ammonium hydroxide in methanol and elute the analytes from the cartridges by pulling the 4 mL of methanol through the sample transfer tubes and the cartridges. Use a low vacuum such that the solvent exits the cartridge in a dropwise fashion. To the final extract, add 50 ul of acetic acid.

NOTE: If empty plastic reservoirs are used in place of the sample transfer tubes to pass the samples through the cartridges, these reservoirs must be treated like the transfer tubes. After the reservoirs have been rinsed in Section 10.3.3, the elution solvent used to rinse the sample bottles must be swirled down the sides of the reservoirs while eluting the cartridge to ensure that any method analytes on the surface of the reservoirs are transferred to the extract.

CLEAN-UP CARTRIDGE ELUTION, Elute the clean-up cartridge with 8 additional mls of methanol and draw the aliquot through the cartridge. Use a low vacuum such that the solvent exits the cartridge in a dropwise fashion.

10.3.5 Fractions 1 and 2 are to be combined during the concentration stage (section10.6)

10.4 Sample Prep and Extraction Protocol for Soils

10.4.1 Homogenize and weigh 2 grams of sample (measured to the nearest hundredth of a gram) intoa 50 ml polypropylene centrifuge tube. For laboratory control blanks and spikes, 2 grams of clean sand is used.

10.4.2 Add 20 µL of the EIS PDS (Sect. 8.2.2) to each sample and QC.

10.4.3 If the sample is an LCS, LCSD, MS, or MSD, add the necessary amount of analyte PDS (Sect. 8.2.3). Cap and invert each sample to mix.

10.4.4 To all samples, add 10 mls of methanol, cap, vortex for 25 seconds at 3000RPM and mix for 30 minutes using a shaker table of tumbler at 120RPM.

10.4.5 Following mixing, sonicate each sample for 30 minutes and let samples sit overnight (at least 2 hours is required for RUSH samples).

10.4.6 Centrifuge each sample at 3500RPM for 10 minutes.

10.4.7 Remove supernatant, and reserve for clean-up.

10.5 Extract Clean-up

10.5.1 CARTRIDGE CLEAN-UP AND CONDITIONING –. Rinse each cartridge with 15 mL of methanol and discard. If the cartridge goes dry during the conditioning phase, the conditioning must be started over. Attach the sample transfer tubes (Sect. 7.9.3), turn on the vacuum, and begin adding sample to the cartridge.

10.5.2 Adjust the vacuum so that the approximate flow rate is 1-2 mL/min. Do not allow the cartridge to go dry before all the sample has passed through.

10.5.3 SAMPLE BOTTLE AND CARTRIDGE RINSE – After the entire sample has passed through the cartridge, rinse the sample collection vial with two 1-mL aliquots of methanol and draw each aliquot through the cartridges. Draw air or nitrogen through the cartridge for 5 min at high vacuum (10-15 in. Hg).

10.5.4 If extracts are not to be immediately evaporated, cover collection tubes and store at ambient temperature till concentration.

10.6 Extract Concentration

10.6.1 Concentrate the extract to dryness under a gentle stream of nitrogen in a heated water bath (60-65 °C) to remove all the water/methanol mix. Add the appropriate amount of 80:20% (vol/vol) methanol:water solution and 20 µl of the ID REC PDS (Sect. 8.2.7) to the collection vial to bring the volume to 1 mL and vortex. Transfer two aliquots with a plastic pipet (Sect. 7.6) into 2 polypropylene autosampler vials.

NOTE: It is recommended that the entire 1-mL aliquot not be transferred to the autosampler vial because the polypropylene autosampler caps do not reseal after injection. Therefore, do not store the extracts in the autosampler vials as evaporation losses can occur occasionally in these autosampler vials. Extracts can be split between 2 X 700 µl vials (Sect. 7.4).

10.7 Sample Volume Determination

10.7.1 If the level of the sample was marked on the sample bottle, use a graduated cylinder to measure the volume of water required to fill the original sample bottle to the mark made prior to extraction. Determine to the nearest 10 mL.

10.7.2 If using weight to determine volume, weigh the empty bottle to the nearest 10 g and determine the sample weight by subtraction of the empty bottle weight from the original sample weight (Sect. 10.2.2). Assume a sample density of 1.0 g/mL. In either case, the sample volume will be used in the final calculations of the analyte concentration (Sect. 11.2).

10.8 Initial Calibration - Demonstration and documentation of acceptable initial calibration is required before any samples are analyzed. After the initial calibration is successful, a CCV is required at the beginning and end of each period in which analyses are performed, and after every tenth Field Sample.

10.8.1 ESI-MS/MS TUNE

10.8.1.1 Calibrate the mass scale of the MS with the calibration compounds and procedures prescribed by the manufacturer.

10.8.1.2 Optimize the [M-H]- for each method analyte by infusing approximately 0.5-1.0 µg/mL of each analyte (prepared in the initial mobile phase conditions) directly into the MS at the chosen LC mobile phase flow rate (approximately 0.4 mL/min). This tune can be done on a mix of the method analytes. The MS parameters (voltages, temperatures, gas flows, etc.) are varied until optimal analyte responses are determined. The method analytes may have different optima requiring some compromise between the optima.

10.8.1.3 Optimize the product ion for each analyte by infusing approximately 0.5-1.0 µg/mL of each analyte (prepared in the initial mobile phase conditions) directly into the MS at the chosen LC mobile phase flow rate (approximately 0.4 mL/min). This tune can be done on a mix of the method analytes. The MS/MS parameters (collision gas pressure, collision energy, etc.) are varied until optimal analyte responses are determined. Typically, the carboxylic acids have very similar MS/MS conditions and the sulfonic acids have similar MS/MS conditions.

10.8.2 Establish LC operating parameters that optimize resolution and peak shape. Modifying the standard or extract composition to more aqueous content to prevent poor shape is not permitted.

Cautions: LC system components, as well as the mobile phase constituents, contain many of the method analytes in this method. Thus, these PFAS's will build up on the head of the LC column during mobile phase equilibration. To minimize the background PFAS peaks and to keep background levels constant, the time the LC column sits at initial conditions must be kept constant and as short as possible (while ensuring reproducible retention times). In addition, prior to daily use, flush the column with 100% methanol for at least 20 min before initiating a sequence. It may be necessary on some systems to flush other LC components such as wash syringes, sample needles or any other system components before daily use.

10.8.3 Inject a mid-level CAL standard under LC/MS conditions to obtain the retention times of each method analyte. If analyzing for PFTA, ensure that the LC

conditions are adequate to prevent co-elution of PFTA and the mobile phase interferants. These interferants have the same precursor and products ions as PFTA, and under faster LC conditions may co-elute with PFTA. Divide the chromatogram into retention time windows each of which contains one or more chromatographic peaks. During MS/MS analysis, fragment a small number of selected precursor ions ([M-H]-) for the analytes in each window and choose the most abundant product ion. For maximum sensitivity, small mass windows of ±0.5 daltons around the product ion mass were used for quantitation.

10.8.4 Inject a mid-level CAL standard under optimized LC/MS/MS conditions to ensure that each method analyte is observed in its MS/MS window and that there are at least 10 scans across the peak for optimum precision.

10.8.4.1 If broad, split or fronting peaks are observed for the first two eluting chromatographic peaks (if only two analytes are being analyzed, both must be evaluated), change the initial mobile phase conditions to higher aqueous content until the peak asymmetry ratio for each peak is 0.8 – 1.5. The peak asymmetry factor is calculated as described in Section 9.9.1 on a mid-level CAL standard. The peak asymmetry factor must meet the above criteria for the first two eluting peaks during the IDL and every time a new calibration curve is generated. Modifying the standard or extract composition to more aqueous content to prevent poor shape is not permitted.

NOTE: PFHxS, PFOS, NMeFOSAA, and NEtFOSAA have multiple chromatographic peaks using the LC conditions in Table 5 due to chromatographic resolution of the linear and branched isomers of these compounds. Most PFAS's are produced by two different processes. One process gives rise to linear PFAS's only while the other process produces both linear and branched isomers. Thus, both branched and linear PFAS's can potentially be found in the environment. For the aforementioned compounds that give rise to more than one peak, all the chromatographic peaks observed in the standard must be integrated and the areas totaled. Chromatographic peaks in a sample must be integrated in the same way as the CAL standard.

10.8.5 Prepare a set of CAL standards as described in Section 8.2.5. The lowest concentration CAL standard must be at or below the RL (2 ng/L), which may depend on system sensitivity.

10.8.6 The LC/MS/MS system is calibrated using the IS technique. Use the LC/MS/MS data system software to generate a linear regression or quadratic calibration curve for each of the analytes. This curve **must always** be forced through zero and may be concentration weighted, if necessary. Forcing zero allows for a better estimate of the background levels of method analytes. A minimum of 5 levels are required for a linear calibration model and a minimum of 6 levels are required for a quadratic calibration model.

10.8.7 CALIBRATION ACCEPTANCE CRITERIA – A linear fit is acceptable if the coefficient of determination (r^2) is greater than 0.99. When quantitated using the initial calibration curve, each calibration point, except the lowest point, for each analyte should calculate to be within 70-130% of its true value. The lowest CAL point should calculate to be within 50-150% of its true value. If these criteria cannot be met, the analyst will have difficulty meeting ongoing QC criteria. It is

recommended that corrective action is taken to reanalyze the CAL standards, restrict the range of calibration, or select an alternate method of calibration (forcing the curve through zero is still required).

10.8.7.1 CAUTION: When acquiring MS/MS data, LC operating conditions must be carefully reproduced for each analysis to provide reproducible retention times. If this is not done, the correct ions will not be monitored at the appropriate times. As a precautionary measure, the chromatographic peaks in each window must not elute too close to the edge of the segment time window.

10.9 CONTINUING CALIBRATION CHECK (CCV) – Minimum daily calibration verification is as follows. Verify the initial calibration at the beginning and end of each group of analyses, and after every tenth sample during analyses. In this context, a "sample" is considered to be a Field Sample. MBs, CCVs, LCSs, MSs, FDs FRBs and MSDs are not counted as samples. The beginning CCV of each analysis batch must be at or below the RL in order to verify instrument sensitivity prior to any analyses. If standards have been prepared such that all low CAL points are not in the same CAL solution, it may be necessary to analyze two CAL standards to meet this requirement. Alternatively, the analyte concentrations in the analyte PDS may be customized to meet these criteria. Subsequent CCVs should alternate between a medium and Low concentration CAL standard.

10.9.1 Inject an aliquot of the appropriate concentration CAL standard and analyze with the same conditions used during the initial calibration.

10.9.2 Calculate the concentration of each analyte and EIS in the CCV. The calculated amount for each analyte for medium level CCVs must be within ± 30% of the true value with an allowance of 10% of the reported analytes to be greater than 30%, but less than 40%. The calculated amount for each EIS must be within ± 50% of the true value. The calculated amount for the lowest calibration point for each analyte must be within ± 50%. If these conditions do not exist, then all data for the problem analyte must be considered invalid, and remedial action should be taken (Sect. 10.7.4) which may require recalibration. Any Field or QC Samples that have been analyzed since the last acceptable calibration verification should be reanalyzed after adequate calibration has been restored, with the following exception. **If the CCV fails because the calculated concentration is greater than 130% (150% for the low-level CCV) for a particular method analyte, and Field Sample extracts show no detection for that method analyte, non-detects may be reported without re-analysis.**

10.9.3 REMEDIAL ACTION – Failure to meet CCV QC performance criteria may require remedial action. Major maintenance, such as cleaning the electrospray probe, atmospheric pressure ionization source, cleaning the mass analyzer, replacing the LC column, etc., requires recalibration (Sect 10.6) and verification of sensitivity by analyzing a CCV at or below the RL (Sect 10.7).

10.10 EXTRACT ANALYSIS

10.10.1 Establish operating conditions equivalent to those summarized in Tables 6-8 of Section 16. Instrument conditions and columns should be optimized prior to the initiation of the IDC.

10.10.2 Establish an appropriate retention time window for each analyte. This should be based on measurements of actual retention time variation for each method analyte in CAL standard solutions analyzed on the LC over the course of time. A value of plus or minus three times the standard deviation of the retention time obtained for each method analyte while establishing the initial calibration and completing the IDC can be used to calculate a suggested window size. However, the experience of the analyst should weigh heavily on the determination of the appropriate retention window size.

10.10.3 Calibrate the system by either the analysis of a calibration curve (Sect. 10.6) or by confirming the initial calibration is still valid by analyzing a CCV as described in Section 10.7. If establishing an initial calibration, complete the IDC as described in Section 13.2.

10.10.4 Begin analyzing Field Samples, including QC samples, at their appropriate frequency by injecting the same size aliquots under the same conditions used to analyze the CAL standards.

10.10.5 At the conclusion of data acquisition, use the same software that was used in the calibration procedure to identify peaks of interest in predetermined retention time windows. Use the data system software to examine the ion abundances of the peaks in the chromatogram. Identify an analyte by comparison of its retention time with that of the corresponding method analyte peak in a reference standard.

10.10.6 The analyst must not extrapolate beyond the established calibration range. If an analyte peak area exceeds the range of the initial calibration curve, the sample should be re-extracted with a reduced sample volume in order to bring the out of range target analytes into the calibration range. If a smaller sample size would not be representative of the entire sample, the following options are recommended. Re-extract an additional aliquot of sufficient size to insure that it is representative of the entire sample. Spike it with a higher concentration of internal standard. Prior to LC/MS analysis, dilute the sample so that it has a concentration of internal standard equivalent to that present in the calibration standard. Then, analyze the diluted extract.

11. Data Evaluation, Calculations and Reporting

11.1 Complete chromatographic resolution is not necessary for accurate and precise measurements of analyte concentrations using MS/MS. In validating this method, concentrations were calculated by measuring the product ions listed in Table 7.

11.2 Calculate analyte concentrations using the multipoint calibration established in Section 10.6. Do not use daily calibration verification data to quantitate analytes in samples. Adjust final analyte concentrations to reflect the actual sample volume determined in Section 10.6 where:

C_{ex} = (Area of target analyte * Concentration of Labeled analog) / (area of labeled analog * CF)

C_s = (C_{ex} / sample volume in ml) * 1000

C_{ex} = The concentration of the analyte in the extract
CF = calibration factor from calibration.

11.3 Prior to reporting the data, the chromatogram should be reviewed for any incorrect peak identification or poor integration.

11.4 PFHxS, PFOS, PFOA, NMeFOSAA, and NEtFOSAA have multiple chromatographic peaks using the LC conditions in Table 5 due to the linear and branch isomers of these compounds (Sect. 10.6.4.1). The areas of all the linear and branched isomer peaks observed in the CAL standards for each of these analytes must be summed and the concentrations reported as a total for each of these analytes.

11.5 Calculations must utilize all available digits of precision, but final reported concentrations should be rounded to an appropriate number of significant figures (one digit of uncertainty), typically two, and not more than three significant figures.

12. Contingencies for Handling Out-of-Control Data or Unacceptable Data

12.1 Section 9.0 outlines sample batch QC acceptance criteria. If non-compliant organic compound results are to be reported, the Organic Section Head and/or the Laboratory Director, and the Operations Manager must approve the reporting of these results. The laboratory Project Manager shall be notified, and may choose to relay the non-compliance to the client, for approval, or other corrective action, such as re-sampling and re-analysis. The analyst, Data Reviewer, or Department Supervisor performing the secondary review initiates the project narrative, and the narrative must clearly document the non-compliance and provide a reason for acceptance of these results.

12.2 All results for the organic compounds of interest are reportable without qualification if extraction and analytical holding times are met, preservation requirements (including cooler temperatures) are met, all QC criteria are met, and matrix interference is not suspected during extraction or analysis of the samples. If any of the below QC parameters are not met, all associated samples must be evaluated for re-extraction and/or re-analysis.

13. Method Performance

13.1 Detection Limit Study (DL) / Limit of Detection Study (LOD) / Limit of Quantitation (LOQ)

13.1.1 The laboratory follows the procedure to determine the DL, LOD, and/or LOQ as outlined in Alpha SOP ID 1732. These studies performed by the laboratory are maintained on file for review.

13.2 Demonstration of Capability Studies

13.2.1 The IDC must be successfully performed prior to analyzing any Field Samples. Prior to conducting the IDC, the analyst must first generate an acceptable Initial Calibration following the procedure outlined in Section 10.6.

13.2.2 INITIAL DEMONSTRATION OF LOW SYSTEM BACKGROUND – Any time a new lot of SPE cartridges, solvents, centrifuge tubes, disposable pipets, and autosampler vials are used, it must be demonstrated that an MB is reasonably free of contamination and that the criteria in Section 9.2.1 are met. If an automated extraction system is used, an MB should be extracted on each port to ensure that all the valves and tubing are free from potential PFAS contamination.

13.2.3 INITIAL DEMONSTRATION OF PRECISION (IDP) – Prepare, extract, and analyze four to seven replicate LCSs fortified near the midrange of the initial calibration curve according to the procedure described in Section 10. Sample preservatives as described in Section 6.2.1 must be added to these samples. The relative standard deviation (RSD) of the results of the replicate analyses must be less than 20%.

13.2.4 INITIAL DEMONSTRATION OF ACCURACY (IDA) – Using the same set of replicate data generated for Section 13.2.3, calculate average recovery. The average recovery of the replicate values must be within ± 30% of the true value.

13.2.5 INITIAL DEMONSTRATION OF PEAK ASYMMETRY FACTOR – Peak asymmetry factors must be calculated using the equation in Section 9.10.1 for the first two eluting peaks (if only two analytes are being analyzed, both must be evaluated) in a mid-level CAL standard. The peak asymmetry factors must fall in the range of 0.8 to 1.5. See guidance in Section 10.6.4.1 if the calculated peak asymmetry factors do not meet the criteria.

13.2.6 Refer to Alpha SOP ID 1739 for further information regarding IDC/DOC Generation.

13.2.7 The analyst must make a continuing, annual, demonstration of the ability to generate acceptable accuracy and precision with this method.

14. Pollution Prevention and Waste Management

14.1 Refer to Alpha's Chemical Hygiene Plan and Hazardous Waste Management and Disposal SOP for further pollution prevention and waste management information.

14.2 This method utilizes SPE to extract analytes from water. It requires the use of very small volumes of organic solvent and very small quantities of pure analytes, thereby minimizing the potential hazards to both the analyst and the environment as compared to the use of large volumes of organic solvents in conventional liquid-liquid extractions.

14.3 The analytical procedures described in this method generate relatively small amounts of waste since only small amounts of reagents and solvents are used. The matrices of concern are finished drinking water or source water. However, laboratory waste management practices must be conducted consistent with all applicable rules and regulations, and that laboratories protect the air, water, and land by minimizing and controlling all releases from fume hoods and bench operations. Also, compliance is required with any sewage discharge permits and regulations, particularly the hazardous waste identification rules and land disposal restrictions.

15. Referenced Documents

Chemical Hygiene Plan – ID 2124

SOP ID 1732 Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) SOP

SOP ID 1739 Demonstration of Capability (DOC) Generation SOP

SOP ID 1728 Hazardous Waste Management and Disposal SOP

16. Attachments

Table 7: LC Method Conditions

Time (min)	2 mM Ammonium Acetate (5:95 MeOH/H_2O)	100% Methanol
Initial	100.0	0.0
1.0	100.0	0.0
2.2	85.0	15.0
11	20.0	80.0
11.4	0.0	100.0
12.4	100.0	00.0
15.5	100.0	0.0
Waters Aquity UPLC ® BEHC_{18} 2.1 x 50 mm packed with 1.7 µm BEH C_{18} stationary phase Flow rate of 0.4 mL/min 2-5 µL injection		

Table 8: ESI-MS Method Conditions

ESI Conditions	
Polarity	Negative ion
Capillary needle voltage	.5 kV
Cone Gas Flow	25 L/hr
Nitrogen desolvation gas	1000 L/hr
Desolvation gas temp.	500 ºC

Table 9: Method Analyte Source, Retention Times (RTs), and EIS References

#	Analyte	Transition	RT	IS	Type
1	M3PBA	216>171	2.65		REC
2	PFBA	213 > 169	2.65	2: M4PFBA	
3	M4PFBA	217 > 172	2.65	1: M3PBA	EIS
4	PFPeA	263 > 219	5.67	4: M5PFPEA	
5	M5PFPEA	268 > 223	5.66	1: M3PBA	EIS
6	PFBS	299 > 80	6.35	6: M3PFBS	
7	M3PFBS	302 > 80	6.35	29:M4PFOS	EIS
8	FtS 4:2	327 > 307	7.47	9: M2-4:2FTS	

#	Analyte	Transition	RT	IS	Type
9	M2-4:2FTS	329 > 81	7.47	29:M4PFOS	EIS
10	PFHxA	303 > 269	7.57	10: M5PFHxA	
11	M5PFHxA	318 > 273	7.57	19:M2PFOA	EIS
12	PFPeS	349 > 80	7.88	18: M3PFHxS	
13	PFHpA	363 > 319	8.80	14: M4PFHpA	
14	M4PFHpA	367 > 322	8.80	19:M2PFOA	EIS
15	L-PFHxS	399 > 80	8.94	18: M3PFHxS	
16	br-PFHxS	399 > 80	8.72	18: M3PFHxS	
17	PFHxS Total	399 > 80	8.94	18: M3PFHxS	
18	M3PFHxS	402 > 80	8.94	29:M4PFOS	EIS
19	MPFOA	415 > 370	9.7		REC
20	PFOA	413 > 369	9.7	23: M8PFOA	
21	br-PFOA	413 > 369	9.48	23: M8PFOA	
22	PFOA Total	413 > 369	9.7	23: M8PFOA	
23	M8PFOA	421 > 376	9.7	19: M2PFOA	EIS
24	FtS 6:2	427 > 407	9.66	25: M2-6:2FTS	
25	M2-6:2FTS	429 > 409	9.66	29:M4PFOS	EIS
26	PFHpS	449 > 80	9.78	33: M8PFOS	
27	PFNA	463 > 419	10.41	33: M8PFOS	
28	M9PFNA	472 > 427	10.41	19: M2PFOA	EIS
29	M4PFOS	501 > 80	10.45		REC
30	PFOS	499 > 80	10.45	33: M8PFOS	
31	br-PFOS	499 > 80	10.27	33: M8PFOS	
32	PFOS Total	499 > 80	10.45	33: M8PFOS	
33	M8PFOS	507 > 80	10.45	29: M4PFOS	EIS
34	FtS 8:2	527 > 507	10.99	38: M2-8:2FTS	
35	M2-8:2FTS	529 > 509	10.99	29:M4PFOS	EIS
36	M2PFDA	515 > 470	11.00		REC
37	PFDA	513 > 469	11.00	38: M6PFDA	
38	M6PFDA	519 > 474	11.00	36: M2PFDA	EIS
39	PFNS	549 > 80	11.02	33:M8PFOS	
40	NMeFOSAA	570 > 419	11.41	41: D3-NMeFOSAA	
41	d3-NMeFOSAA	573 > 419	11.41	36: M2PFDA	EIS
42	PFOSA	498 > 78	11.48	29: M8FOSA	
43	M8FOSA	506 > 78	11.48	19: M2PFOA	EIS
44	PFUnDA	563 > 519	11.51	41: M7-PFUDA	
45	M7-PFUDA	570 > 525	11.51	36: M2PFDA	EIS
46	PFDS	599 > 80	11.51	33:M8PFOS	
47	NEtFOSAA	584 > 419	11.68	48: d5-NEtFOSAA	

#	Analyte	Transition	RT	IS	Type
48	d5-NEtFOSAA	589 > 419	11.68	36: M2PFDA	EIS
49	PFDoA	613 > 569	11.96	50: MPFDOA	
50	MPFDOA	615 > 570	11.96	36: M2PFDA	EIS
51	PFTriA	663 > 619	12.34	50: MPFDOA	
52	PFTeA	713 > 669	12.6	53: M2PFTEDA	
53	M2PFTEDA	715 > 670	12.6	36: M2PFDA	EIS
54	M3HFPO-DA	329>285	7.97	19: M2PFOA	EIS
55	HFPO-DA	332>287	7.97	54: M3HFPO-DA	
56	ADONA	377>251	8.00	23: M8PFOA	
57	PFHxDA	813>769	13.20	59: M2PFHxDA	
58	PFODA	913>869	13.50	59: M2PFHxDA	
59	M2PFHxDA	815>770	13.20	36:M2PFDA	EIS
60	NEtFOSA	526>169	11.00	61: NMeFOSA	
61	NMeFOSA	512>169	10.50	63: d3-NMeFOSA	
62	d3-NMeFOSA	515>169	10.50	29: M4PFOS	EIS
63	d5-NEtFOSA	531>169	11.00	29: M4PFOS	EIS
64	NMeFOSE	556>122	11.25	66: d7-NMeFOSE	
65	NEtFOSE	570>136	10.75	67: d9-NEtFOSE	
66	d7-NMeFOSE	563>126	11.25	29: M4PFOS	EIS
67	d9-NEtFOSE	579>142	10.75	29: M4PFOS	EIS
68	FtS 10:2	627>607	11.50	25: M2-6:2FTS	
69	PFDoS	699>99	12.50	33: M8PFOS	

APPENDIX E
MSDS

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1,2,4-TRIMETHYLBENZENE

1433
March 2002

CAS No: 95-63-6
RTECS No: DC3325000
UN No: 1993
EC No: 601-043-00-3

Pseudocumene
C_9H_{12}
Molecular mass: 120,2

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Flammable.	NO open flames, NO sparks, and NO smoking.	Alcohol-resistant foam, dry powder, carbon dioxide.
EXPLOSION	Above 44/C explosive vapour/air mixtures may be formed.	Above 44/C use a closed system, ventilation, and explosion-proof electrical equipment. Prevent build-up of electrostatic charges (e.g., by grounding).	In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE		**PREVENT GENERATION OF MISTS!**	
Inhalation	Confusion. Cough. Dizziness. Drowsiness. Headache. Sore throat. Vomiting.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
Skin	Redness. Dry skin.	Protective gloves.	Rinse skin with plenty of water or shower.
Eyes	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	(See Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Do NOT let this chemical enter the environment. Personal protection: filter respirator for organic gases and vapours.	Xn Symbol N Symbol R: 10-20-36/37/38-51/53 S: (2-)26-61 UN Hazard Class: 3 UN Pack Group: III

EMERGENCY RESPONSE	SAFE STORAGE
Transport Emergency Card: TEC (R)-30GF1-III NFPA Code: H0; F2; R0	Fireproof. Separated from strong oxidants. Well closed. Keep in a well-ventilated room.

IPCS
International Programme on Chemical Safety

Prepared in the context of cooperation between the International Programme on Chemical Safety and the European Commission
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SEE IMPORTANT INFORMATION ON THE BACK.

IMPORTANT DATA

Physical State; Appearance
COLOURLESS LIQUID, WITH CHARACTERISTIC ODOUR.

Chemical dangers
The substance decomposes on burning producing toxic and irritating fumes. Reacts violently with strong oxidants causing fire and explosion hazard.

Occupational exposure limits
TLV: (as mixed isomers) 25 ppm as TWA; (ACGIH 2004).
MAK: (as mixed isomers) 20 ppm, 100 mg/m^3; Peak limitation category: II(2); Pregnancy risk group: C; (DFG 2004).

Routes of exposure
The substance can be absorbed into the body by inhalation.

Inhalation risk
A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20/C; on spraying or dispersing, however, much faster.

Effects of short-term exposure
The substance is irritating to the eyes the skin and the respiratory tract. If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis. The substance may cause effects on the central nervous system.

Effects of long-term or repeated exposure
The liquid defats the skin. Lungs may be affected by repeated or prolonged exposure, resulting in chronic bronchitis. The substance may have effects on the central nervous system and blood. See Notes.

PHYSICAL PROPERTIES

Boiling point: 169/C
Melting point: -44/C
Relative density (water = 1): 0.88
Solubility in water: very poor
Relative vapour density (air = 1): 4.1
Relative density of the vapour/air-mixture at 20/C (air = 1): 1.01
Flash point: 44/C c.c.
Auto-ignition temperature: 500/C
Explosive limits, vol% in air: 0.9-6.4
Octanol/water partition coefficient as log Pow: 3.8

ENVIRONMENTAL DATA

The substance is toxic to aquatic organisms. Bioaccumulation of this chemical may occur in fish.

NOTES

Use of alcoholic beverages enhances the harmful effect.
Depending on the degree of exposure, periodic medical examination is suggested.
See also ICSC 1155 1,3,5-Trimethylbenzene (Mesitylene), ICSC 1362 1,2,3-Trimethylbenzene (Hemimellitene), ICSC 1389 Trimethyl benzene (mixed isomers).
1,3,5-Trimethylbenzene (Mesitylene) is classified as a marine pollutant.
Card has been partly updated in October 2004. See sections Occupational Exposure Limits, EU classification, Emergency Response.

ADDITIONAL INFORMATION

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1,3,5-TRIMETHYLBENZENE

1155
March 2002

CAS No: 108-67-8
RTECS No: OX6825000
UN No: 2325
EC No: 601-025-00-5

Mesitylene
C_9H_{12}
Molecular mass: 120.2

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Flammable.	NO open flames, NO sparks, and NO smoking.	Alcohol-resistant foam, dry powder, carbon dioxide.
EXPLOSION	Above 50/C explosive vapour/air mixtures may be formed.	Above 50/C use a closed system, ventilation, and explosion-proof electrical equipment. Prevent build-up of electrostatic charges (e.g., by grounding).	In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE		**PREVENT GENERATION OF MISTS!**	
Inhalation	Confusion. Cough. Dizziness. Drowsiness. Headache. Sore throat. Vomiting.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
Skin	Redness. Dry skin.	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
Eyes	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	(See Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING	
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Do NOT let this chemical enter the environment. Personal protection: filter respirator for organic gases and vapours.	Xi Symbol N Symbol R: 10-37-51/53 S: (2-)61 UN Hazard Class: 3 UN Pack Group: III	Marine pollutant.

EMERGENCY RESPONSE	SAFE STORAGE
Transport Emergency Card: TEC (R)-30S2325 NFPA Code: H0; F2; R0	Fireproof. Separated from strong oxidants. Well closed. Keep in a well-ventilated room.

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IMPORTANT DATA

Physical State; Appearance
COLOURLESS LIQUID, WITH CHARACTERISTIC ODOUR.

Chemical dangers
The substance decomposes on burning producing toxic and irritating fumes. Reacts violently with strong oxidants causing fire and explosion hazard.

Occupational exposure limits
TLV: 25 ppm as TWA; (ACGIH 2004).
MAK: (all isomers) 20 ppm, 100 mg/m^3; Peak limitation category: II(2); Pregnancy risk group: C; (DFG 2004).

Routes of exposure
The substance can be absorbed into the body by inhalation.

Inhalation risk
A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20/C; on spraying or dispersing, however, much faster.

Effects of short-term exposure
The substance is irritating to the eyes, the skin and the respiratory tract. If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis. The substance may cause effects on the central nervous system.

Effects of long-term or repeated exposure
The liquid defats the skin. Lungs may be affected by repeated or prolonged exposure, resulting in chronic bronchitis. The substance may have effects on the central nervous system and blood. See Notes.

PHYSICAL PROPERTIES

Boiling point: 165/C
Melting point: -45/C
Relative density (water = 1): 0.86
Solubility in water: very poor
Vapour pressure, kPa at 20/C: 0.25
Relative vapour density (air = 1): 4.1
Relative density of the vapour/air-mixture at 20/C (air = 1): 1.01
Flash point: 50/C (c.c.)
Auto-ignition temperature: 550/C
Octanol/water partition coefficient as log Pow: 3.42

ENVIRONMENTAL DATA

The substance is harmful to aquatic organisms. Bioaccumulation of this chemical may occur in fish.

NOTES

Use of alcoholic beverages enhances the harmful effect.
Depending on the degree of exposure, periodic medical examination is suggested.
See ICSC 1433 1,2,4-Trimethylbenzene (Pseudocumene), ICSC 1362 1,2,3-Trimethylbenzene (Hemimellitene), ICSC 1389 Trimethyl benzene (mixed isomers).
Card has been partly updated in April 2005. See section Occupational Exposure Limits.

ADDITIONAL INFORMATION

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ARSENIC

0013
October 1999

CAS No: 7440-38-2
RTECS No: CG0525000
UN No: 1558
EC No: 033-001-00-X

Grey arsenic
As
Atomic mass: 74.9

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames. NO contact with strong oxidizers. NO contact with hot surfaces.	Powder, water spray, foam, carbon dioxide.
EXPLOSION	Risk of fire and explosion is slight when exposed to hot surfaces or flames in the form of fine powder or dust.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
EXPOSURE		**PREVENT DISPERSION OF DUST! AVOID ALL CONTACT! AVOID EXPOSURE OF (PREGNANT) WOMEN!**	**IN ALL CASES CONSULT A DOCTOR!**
Inhalation	Cough. Sore throat. Shortness of breath. Weakness. See Ingestion.	Closed system and ventilation.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
Skin	Redness.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
Eyes	Redness.	Face shield or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Abdominal pain. Diarrhoea. Nausea. Vomiting. Burning sensation in the throat and chest. Shock or collapse. Unconsciousness.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING	
Evacuate danger area! Sweep spilled substance into sealable containers. Carefully collect remainder, then remove to safe place. Chemical protection suit including self-contained breathing apparatus. Do NOT let this chemical enter the environment.	T Symbol N Symbol R: 23/25-50/53 S: (1/2-)20/21-28-45-60-61 UN Hazard Class: 6.1 UN Pack Group: II	Do not transport with food and feedstuffs. Marine pollutant.

EMERGENCY RESPONSE	SAFE STORAGE
Transport Emergency Card: TEC (R)-61GT5-II	Separated from strong oxidants, acids, halogens, food and feedstuffs. Well closed.

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IMPORTANT DATA

Physical State; Appearance
ODOURLESS, BRITTLE, GREY, METALLIC-LOOKING CRYSTALS.

Chemical dangers
Upon heating, toxic fumes are formed. Reacts violently with strong oxidants and halogens, causing fire and explosion hazard. Reacts with acids to produce toxic arsine gas (see: ICSC 0222).

Occupational exposure limits
TLV: 0.01 mg/m^3 as TWA; A1 (confirmed human carcinogen); BEI issued; (ACGIH 2004).
MAK: Carcinogen category: 1; Germ cell mutagen group: 3A; (DFG 2004).

Routes of exposure
The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

Inhalation risk
Evaporation at 20/C is negligible; a harmful concentration of airborne particles can, however, be reached quickly, when dispersed.

Effects of short-term exposure
The substance is irritating to the eyes, the skin and the respiratory tract. The substance may cause effects on the gastrointestinal tract, cardiovascular system, central nervous system and kidneys, resulting in severe gastroenteritis, loss of fluid, and electrolytes, cardiac disorders, shock, convulsions and kidney impairment. Exposure above the OEL may result in death. The effects may be delayed. Medical observation is indicated.

Effects of long-term or repeated exposure
Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the mucous membranes, skin, peripheral nervous system, liver and bone marrow, resulting in pigmentation disorders, hyperkeratosis, perforation of nasal septum, neuropathy, liver impairment, anaemia. This substance is carcinogenic to humans. Animal tests show that this substance possibly causes toxicity to human reproduction or development.

PHYSICAL PROPERTIES

Sublimation point: 613/C
Density: 5.7 g/cm^3

Solubility in water: none

ENVIRONMENTAL DATA

The substance is toxic to aquatic organisms. It is strongly advised that this substance does not enter the environment.

NOTES

The substance is combustible but no flash point is available in literature.
Depending on the degree of exposure, periodic medical examination is suggested.
Do NOT take working clothes home.
Refer also to cards for specific arsenic compounds, e.g., Arsenic pentoxide (ICSC 0377), Arsenic trichloride (ICSC 0221), Arsenic trioxide (ICSC 0378), Arsine (ICSC 0222).
Card has been partly updated in October 2004. See sections Occupational Exposure Limits, EU classification, Emergency Response.
Card has been partly updated in October 2005 in section Effects of long-term or repeated exposure.

ADDITIONAL INFORMATION

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BENZ(a)ANTHRACENE

0385
October 1995

CAS No: 56-55-3
RTECS No: CV9275000
EC No: 601-033-00-9

1,2-Benzoanthracene
Benzo(a)anthracene
2,3-Benzphenanthrene
Naphthanthracene
$C_{18}H_{12}$
Molecular mass: 228.3

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible.		Water spray, powder. In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
EXPOSURE		**AVOID ALL CONTACT!**	
Inhalation		Local exhaust or breathing protection.	Fresh air, rest.
Skin		Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Eyes		Safety goggles, face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion		Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Personal protection: complete protective clothing including self-contained breathing apparatus.	T Symbol N Symbol R: 45-50/53 S: 53-45-60-61

EMERGENCY RESPONSE	SAFE STORAGE
	Well closed.

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IMPORTANT DATA

Physical State; Appearance
COLOURLESS TO YELLOW - BROWN FLUORESCENT FLAKES OR POWDER.

Physical dangers
Dust explosion possible if in powder or granular form, mixed with air.

Occupational exposure limits
TLV: A2 (suspected human carcinogen); (ACGIH 2004).

Routes of exposure
The substance can be absorbed into the body by inhalation, through the skin and by ingestion.

Inhalation risk
Evaporation at 20/C is negligible; a harmful concentration of airborne particles can, however, be reached quickly.

Effects of long-term or repeated exposure
This substance is probably carcinogenic to humans.

PHYSICAL PROPERTIES

Sublimation point: 435/C
Melting point: 162/C
Relative density (water = 1): 1.274

Solubility in water: none
Vapour pressure, Pa at 20/C: 292
Octanol/water partition coefficient as log Pow: 5.61

ENVIRONMENTAL DATA

Bioaccumulation of this chemical may occur in seafood.

NOTES

This substance is one of many polycyclic aromatic hydrocarbons - standards are usually established for them as mixtures, e.g., coal tar pitch volatiles. However, it may be encountered as a laboratory chemical in its pure form.
Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.
Do NOT take working clothes home.
Tetraphene is a common name.
Card has been partly updated in October 2005. See sections Occupational Exposure Limits, EU classification.

ADDITIONAL INFORMATION

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BENZO(a)PYRENE

0104
October 2005

CAS No: 50-32-8
RTECS No: DJ3675000
EC No: 601-032-00-3

Benz(a)pyrene
3,4-Benzopyrene
Benzo(d,e,f)chrysene
$C_{20}H_{12}$
Molecular mass: 252.3

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible.	NO open flames.	Water spray, foam, powder, carbon dioxide.
EXPLOSION			
EXPOSURE	**See EFFECTS OF LONG-TERM OR REPEATED EXPOSURE.**	**AVOID ALL CONTACT! AVOID EXPOSURE OF (PREGNANT) WOMEN!**	
Inhalation		Local exhaust or breathing protection.	Fresh air, rest.
Skin	MAY BE ABSORBED!	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Eyes		Safety goggles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion		Do not eat, drink, or smoke during work.	Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Evacuate danger area! Personal protection: complete protective clothing including self-contained breathing apparatus. Do NOT let this chemical enter the environment. Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place.	T Symbol N Symbol R: 45-46-60-61-43-50/53 S: 53-45-60-61

EMERGENCY RESPONSE	SAFE STORAGE
	Separated from strong oxidants.

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IMPORTANT DATA

Physical State; Appearance
PALE-YELLOW CRYSTALS

Chemical dangers
Reacts with strong oxidants causing fire and explosion hazard.

Occupational exposure limits
TLV: Exposure by all routes should be carefully controlled to levels as low as possible A2 (suspected human carcinogen); (ACGIH 2005).
MAK: Carcinogen category: 2; Germ cell mutagen group: 2; (DFG 2005).

Routes of exposure
The substance can be absorbed into the body by inhalation of its aerosol, through the skin and by ingestion.

Inhalation risk
Evaporation at 20/C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.

Effects of long-term or repeated exposure
This substance is carcinogenic to humans. May cause heritable genetic damage to human germ cells. Animal tests show that this substance possibly causes toxicity to human reproduction or development.

PHYSICAL PROPERTIES

Boiling point: 496/C
Melting point: 178.1/C
Density: 1.4 g/cm^3

Solubility in water: none (<0.1 g/100 ml)
Vapour pressure : negligible
Octanol/water partition coefficient as log Pow: 6.04

ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms. Bioaccumulation of this chemical may occur in fish, in plants and in molluscs. The substance may cause long-term effects in the aquatic environment.

NOTES

Do NOT take working clothes home.
Benzo(a)pyrene is present as a component of polycyclic aromatic hydrocarbons (PAHs) in the environment, usually resulting from the incomplete combustion or pyrolysis of organic matters, especially fossil fuels and tobacco.

ADDITIONAL INFORMATION

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BENZO(b)FLUORANTHENE

0720
March 1999

CAS No: 205-99-2
RTECS No: CU1400000
EC No: 601-034-00-4

Benz(e)acephenanthrylene
2,3-Benzofluoroanthene
Benzo(e)fluoranthene
3,4-Benzofluoranthene
$C_{20}H_{12}$
Molecular mass: 252.3

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE			In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION			
EXPOSURE		**AVOID ALL CONTACT!**	
Inhalation		Local exhaust or breathing protection.	Fresh air, rest.
Skin		Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Eyes		Safety spectacles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion		Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Sweep spilled substance into covered containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment.	T Symbol N Symbol R: 45-50/53 S: 53-45-60-61

EMERGENCY RESPONSE	SAFE STORAGE
	Provision to contain effluent from fire extinguishing. Well closed.

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IMPORTANT DATA

Physical State; Appearance
COLOURLESS CRYSTALS

Chemical dangers
Upon heating, toxic fumes are formed.

Occupational exposure limits
TLV: A2 (suspected human carcinogen); (ACGIH 2004).
MAK: Carcinogen category: 2; (DFG 2004).

Routes of exposure
The substance can be absorbed into the body by inhalation of its aerosol and through the skin.

Inhalation risk
Evaporation at 20/C is negligible; a harmful concentration of airborne particles can, however, be reached quickly.

Effects of long-term or repeated exposure
This substance is possibly carcinogenic to humans. May cause genetic damage in humans.

PHYSICAL PROPERTIES

Boiling point: 481/C
Melting point: 168/C
Solubility in water: none
Octanol/water partition coefficient as log Pow: 6.12

ENVIRONMENTAL DATA

This substance may be hazardous to the environment; special attention should be given to air quality and water quality.

NOTES

Benzo(b)fluoranthene is present as a component of polycyclic aromatic hydrocarbons (PAH) content in the environment usually resulting from the incomplete combustion or pyrolysis of organic matters, especially fossil fuels and tobacco. ACGIH recommends environment containing benzo(b)fluoranthene should be evaluated in terms of the TLV-TWA for coal tar pitch volatile, as benzene soluble 0.2 mg/m^3.
Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.
Card has been partly updated in October 2005. See section Occupational Exposure Limits.

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BENZO(k)FLUORANTHENE

0721
March 1999

CAS No: 207-08-9
RTECS No: DF6350000
EC No: 601-036-00-5

Dibenzo(b,jk)fluorene
8,9-Benzofluoranthene
11,12-Benzofluoranthene
$C_{20}H_{12}$
Molecular mass: 252.3

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE			In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION			
EXPOSURE		**AVOID ALL CONTACT!**	
Inhalation		Local exhaust or breathing protection.	Fresh air, rest.
Skin		Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Eyes		Safety spectacles or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion		Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Sweep spilled substance into covered containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment.	T Symbol N Symbol R: 45-50/53 S: 53-45-60-61

EMERGENCY RESPONSE	SAFE STORAGE
	Provision to contain effluent from fire extinguishing. Well closed.

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IMPORTANT DATA

Physical State; Appearance
YELLOW CRYSTALS

Chemical dangers
Upon heating, toxic fumes are formed.

Occupational exposure limits
TLV not established.
MAK: Carcinogen category: 2; (DFG 2004).

Routes of exposure
The substance can be absorbed into the body by inhalation of its aerosol and through the skin.

Inhalation risk
Evaporation at 20/C is negligible; a harmful concentration of airborne particles can, however, be reached quickly.

Effects of long-term or repeated exposure
This substance is possibly carcinogenic to humans.

PHYSICAL PROPERTIES

Boiling point: 480/C
Melting point: 217/C

Solubility in water: none
Octanol/water partition coefficient as log Pow: 6.84

ENVIRONMENTAL DATA

This substance may be hazardous to the environment; special attention should be given to air quality and water quality. Bioaccumulation of this chemical may occur in crustacea and in fish.

NOTES

Benzo(k)fluoranthene is present as a component of polycyclic aromatic hydrocarbons (PAH) content in the environment usually resulting from the incomplete combustion or pyrolysis of organic matters, especially fossil fuels and tobacco. ACGIH recommends environment containing benzo(k)fluoranthene should be evaluated in terms of the TLV-TWA for coal tar pitch volatile, as benzene soluble 0.2 mg/m^3.
Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.
Card has been partly updated in October 2005. See section Occupational Exposure Limits.

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Safety (MSDS) data for chrysene



General

Synonyms: 1,2-benzophenanthrene, benzo(a)phenanthrene, 1,2-benzphenanthrene, coal tar pitch, benz(a)phenanthrene, 1,2,5,6-dibenzonaphthalene
Molecular formula: $C_{18}H_{12}$
CAS No: 218-01-9
EC No: 205-923-4

Physical data

Appearance: crystalline powder
Melting point: 253 C
Boiling point: 448 C
Vapour density:
Vapour pressure:
Density (g cm^{-3}): 1.27
Flash point:
Explosion limits:
Autoignition temperature:
Water solubility: insoluble

Stability

Stable. Combustible. Incompatible with strong oxidizing agents.

Toxicology

Toxic. Confirmed animal carcinogen, possible human carcinogen. Harmful if

swallowed, inhaled or absorbed through the skin.

Toxicity data
(The meaning of any abbreviations which appear in this section is given here.)
IPR-MUS LD50 >320 mg kg^{-1}

Risk phrases
(The meaning of any risk phrases which appear in this section is given here.)
R20 R21 R22 R45 R46.

Transport information

(The meaning of any UN hazard codes which appear in this section is given here.)
UN No 2811. Packing group I. Hazard class 6.1. CDG UK Transport category 1. EMS No 6.1-04.

Personal protection

Safety glasses, good ventilation, gloves. Handle as a carcinogen. A COSHH assessment is required.

Safety phrases
(The meaning of any safety phrases which appear in this section is given here.)
S3 S7 S9 S36 S37 S39 S45.

[Return to Physical & Theoretical Chemistry Lab. Safety home page.]

This information was last updated on April 1, 2005. We have tried to make it as accurate and useful as possible, but can take no responsibility for its use, misuse, or accuracy. We have not verified this information, and cannot guarantee that it is up-to-date.

COPPER

0240
September 1993

CAS No: 7440-50-8
RTECS No: GL5325000
UN No:
EC No:

Cu
Atomic mass: 63.5

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible.	NO open flames.	Special powder, dry sand, NO other agents.
EXPLOSION			
EXPOSURE		**PREVENT DISPERSION OF DUST!**	
Inhalation	Cough. Headache. Shortness of breath. Sore throat.	Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
Skin	Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Eyes	Redness. Pain.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Abdominal pain. Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Sweep spilled substance into containers. Carefully collect remainder. Then remove to safe place (extra personal protection: P2 filter respirator for harmful particles).	Symbol R: S:

EMERGENCY RESPONSE	STORAGE
	Separated from: see Chemical Dangers.

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IMPORTANT DATA

Physical State; Appearance
RED POWDER, TURNS GREEN ON EXPOSURE TO MOIST AIR.

Chemical Dangers
Shock-sensitive compounds are formed with acetylenic compounds, ethylene oxides and azides. Reacts with strong oxidants like chlorates, bromates and iodates, causing explosion hazard.

Occupational Exposure Limits
TLV: ppm; 0.2 mg/m^3 fume (ACGIH 1992-1993).
TLV (as Cu, dusts & mists): ppm; 1 mg/m3 (ACGIH 1992-1993).

Routes of Exposure
The substance can be absorbed into the body by inhalation and by ingestion.

Inhalation Risk
Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.

Effects of Short-term Exposure
Inhalation of fume may cause metal fever (see Notes).

Effects of Long-term or Repeated Exposure
Repeated or prolonged contact may cause skin sensitization.

PHYSICAL PROPERTIES

Boiling point: 2595°C
Melting point: 1083°C
Relative density (water = 1): 8.9
Solubility in water: none

ENVIRONMENTAL DATA

NOTES

The symptoms of metal fume fever do not become manifest until several hours.

ADDITIONAL INFORMATION

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DIBENZO(a,h)ANTHRACENE

0431

October 1995

CAS No: 53-70-3
RTECS No: HN2625000
EC No: 601-041-00-2

1,2:5,6-Dibenzanthracene
$C_{22}H_{14}$
Molecular mass: 278.4

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible.	NO open flames.	Water spray, powder.
EXPLOSION			
EXPOSURE		**AVOID ALL CONTACT!**	
Inhalation		Local exhaust or breathing protection.	Fresh air, rest.
Skin	Redness. Swelling. Itching.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Eyes	Redness.	Face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion		Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Personal protection: P3 filter respirator for toxic particles.	T Symbol N Symbol R: 45-50/53 S: 53-45-60-61

EMERGENCY RESPONSE	SAFE STORAGE
	Well closed.

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IMPORTANT DATA

Physical State; Appearance
COLOURLESS CRYSTALLINE POWDER.

Occupational exposure limits
TLV not established.

Routes of exposure
The substance can be absorbed into the body by inhalation, through the skin and by ingestion.

Inhalation risk
Evaporation at 20/C is negligible; a harmful concentration of airborne particles can, however, be reached quickly.

Effects of long-term or repeated exposure
The substance may have effects on the skin, resulting in photosensitization. This substance is probably carcinogenic to humans.

PHYSICAL PROPERTIES

Boiling point: 524/C
Melting point: 267/C
Relative density (water = 1): 1.28

Solubility in water: none
Octanol/water partition coefficient as log Pow: 6.5

ENVIRONMENTAL DATA

Bioaccumulation of this chemical may occur in seafood.

NOTES

This is one of many polycyclic aromatic hydrocarbons - standards are usually established for them as mixtures, e.g., coal tar pitch volatiles. However, it may be encountered as a laboratory chemical in its pure form.
Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.
Do NOT take working clothes home.
DBA is a commonly used name.
This substance is one of many polycyclic aromatic hydrocarbons (PAH).
Card has been partly updated in October 2005. See section EU classification.

ADDITIONAL INFORMATION

LEGAL NOTICE Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information

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INDENO(1,2,3-cd)PYRENE

0730
March 1999

CAS No: 193-39-5
RTECS No: NK9300000

o-Phenylenepyrene
2,3-Phenylenepyrene
$C_{22}H_{12}$
Molecular mass: 276.3

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE			In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION			
EXPOSURE		**AVOID ALL CONTACT!**	
Inhalation		Local exhaust or breathing protection.	Fresh air, rest.
Skin		Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Eyes		Safety spectacles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion		Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Sweep spilled substance into covered containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment.	

EMERGENCY RESPONSE	SAFE STORAGE
	Provision to contain effluent from fire extinguishing. Well closed.

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IMPORTANT DATA

Physical State; Appearance
YELLOW CRYSTALS

Chemical dangers
Upon heating, toxic fumes are formed.

Occupational exposure limits
TLV not established.
MAK: Carcinogen category: 2; (DFG 2004).

Routes of exposure
The substance can be absorbed into the body by inhalation of its aerosol and through the skin.

Inhalation risk
Evaporation at 20/C is negligible; a harmful concentration of airborne particles can, however, be reached quickly.

Effects of long-term or repeated exposure
This substance is possibly carcinogenic to humans.

PHYSICAL PROPERTIES

Boiling point: 536/C
Melting point: 164/C

Solubility in water: none
Octanol/water partition coefficient as log Pow: 6.58

ENVIRONMENTAL DATA

This substance may be hazardous to the environment; special attention should be given to air quality and water quality. Bioaccumulation of this chemical may occur in fish.

NOTES

Indeno(1,2,3-cd)pyrene is present as a component of polycyclic aromatic hydrocarbons (PAH) content in the environment usually resulting from the incomplete combustion or pyrolysis of organic matters, especially fossil fuels and tobacco. ACGIH recommends environment containing Indeno(1,2,3-c,d)pyrene should be evaluated in terms of the TLV-TWA for coal tar pitch volatile, as benzene soluble 0.2 mg/m^3.
Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.
Card has been partly updated in October 2005. See section Occupational Exposure Limits.

ADDITIONAL INFORMATION

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LEAD

0052
October 2002

CAS No: 7439-92-1
RTECS No: OF7525000

Lead metal
Plumbum
(powder)
Pb
Atomic mass: 207.2

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
EXPOSURE	**See EFFECTS OF LONG-TERM OR REPEATED EXPOSURE.**	**PREVENT DISPERSION OF DUST! AVOID EXPOSURE OF (PREGNANT) WOMEN!**	
Inhalation		Local exhaust or breathing protection.	Fresh air, rest.
Skin		Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Eyes		Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Abdominal pain. Nausea. Vomiting.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Give plenty of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment. Personal protection: P3 filter respirator for toxic particles.	

EMERGENCY RESPONSE	SAFE STORAGE
	Separated from food and feedstuffs and incompatible materials. See Chemical Dangers.

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IMPORTANT DATA

Physical State; Appearance
BLUISH-WHITE OR SILVERY-GREY SOLID IN VARIOUS FORMS. TURNS TARNISHED ON EXPOSURE TO AIR.

Physical dangers
Dust explosion possible if in powder or granular form, mixed with air.

Chemical dangers
On heating, toxic fumes are formed. Reacts with oxidants. Reacts with hot concentrated nitric acid, boiling concentrated hydrochloric acid and sulfuric acid. Attacked by pure water and by weak organic acids in the presence of oxygen.

Occupational exposure limits
TLV: 0.05 mg/m^3 as TWA; A3 (confirmed animal carcinogen with unknown relevance to humans); BEI issued; (ACGIH 2004).
MAK: Carcinogen category: 3B; Germ cell mutagen group: 3A; (DFG 2004).
EU OEL: as TWA 0.15 mg/m^3; (EU 2002).

Routes of exposure
The substance can be absorbed into the body by inhalation and by ingestion.

Inhalation risk
A harmful concentration of airborne particles can be reached quickly when dispersed, especially if powdered.

Effects of long-term or repeated exposure
The substance may have effects on the blood, bone marrow, central nervous system, peripheral nervous system and kidneys, resulting in anaemia, encephalopathy (e.g., convulsions), peripheral nerve disease, abdominal cramps and kidney impairment. Causes toxicity to human reproduction or development.

PHYSICAL PROPERTIES

Boiling point: 1740/C
Melting point: 327.5/C
Density: 11.34 g/cm^3
Solubility in water: none

ENVIRONMENTAL DATA

Bioaccumulation of this chemical may occur in plants and in mammals. It is strongly advised that this substance does not enter the environment.

NOTES

Depending on the degree of exposure, periodic medical examination is suggested.
Do NOT take working clothes home.
Card has been partly updated in April 2005. See section Occupational Exposure Limits.

ADDITIONAL INFORMATION

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MERCURY

0056
April 2004

CAS No: 7439-97-6
RTECS No: OV4550000
UN No: 2809
EC No: 080-001-00-0

Quicksilver
Liquid silver
Hg
Atomic mass: 200.6

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION	Risk of fire and explosion.		In case of fire: keep drums, etc., cool by spraying with water.

EXPOSURE		STRICT HYGIENE! AVOID EXPOSURE OF (PREGNANT) WOMEN! AVOID EXPOSURE OF ADOLESCENTS AND CHILDREN!	IN ALL CASES CONSULT A DOCTOR!
Inhalation	Abdominal pain. Cough. Diarrhoea. Shortness of breath. Vomiting. Fever or elevated body temperature.	Local exhaust or breathing protection.	Fresh air, rest. Artificial respiration if indicated. Refer for medical attention.
Skin	MAY BE ABSORBED! Redness.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
Eyes		Face shield, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion		Do not eat, drink, or smoke during work. Wash hands before eating.	Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING	
Evacuate danger area in case of a large spill! Consult an expert! Ventilation. Collect leaking and spilled liquid in sealable non-metallic containers as far as possible. Do NOT wash away into sewer. Do NOT let this chemical enter the environment. Chemical protection suit including self-contained breathing apparatus.	T Symbol N Symbol R: 23-33-50/53 S: (1/2-)7-45-60-61 UN Hazard Class: 8 UN Pack Group: III	Special material. Do not transport with food and feedstuffs.

EMERGENCY RESPONSE	STORAGE
Transport Emergency Card: TEC (R)-80GC9-II+III	Provision to contain effluent from fire extinguishing. Separated from food and feedstuffs. Well closed.

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IMPORTANT DATA

Physical State; Appearance
ODOURLESS, HEAVY AND MOBILE SILVERY LIQUID METAL.

Chemical dangers
Upon heating, toxic fumes are formed. Reacts violently with ammonia and halogens causing fire and explosion hazard. Attacks aluminium and many other metals forming amalgams.

Occupational exposure limits
TLV: 0.025 mg/m^3 as TWA; (skin); A4; BEI issued; (ACGIH 2004).
MAK: 0.1 mg/m^3; Sh; Peak limitation category: II(8); Carcinogen category: 3B; (DFG 2003).

Routes of exposure
The substance can be absorbed into the body by inhalation of its vapour and through the skin, also as a vapour!

Inhalation risk
A harmful contamination of the air can be reached very quickly on evaporation of this substance at 20/C.

Effects of short-term exposure
The substance is irritating to the skin. Inhalation of the vapours may cause pneumonitis. The substance may cause effects on the central nervous system and kidneys. The effects may be delayed. Medical observation is indicated.

Effects of long-term or repeated exposure
The substance may have effects on the central nervous system and kidneys, resulting in irritability, emotional instability, tremor, mental and memory disturbances, speech disorders. May cause inflammation and discoloration of the gums. Danger of cumulative effects. Animal tests show that this substance possibly causes toxic effects upon human reproduction.

PHYSICAL PROPERTIES

Boiling point: 357/C
Melting point: -39/C
Relative density (water = 1): 13.5
Solubility in water: none
Vapour pressure, Pa at 20/C: 0.26
Relative vapour density (air = 1): 6.93
Relative density of the vapour/air-mixture at 20/C (air = 1): 1.009

ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms. In the food chain important to humans, bioaccumulation takes place, specifically in fish.

NOTES

Depending on the degree of exposure, periodic medical examination is indicated.
No odour warning if toxic concentrations are present.
Do NOT take working clothes home.

ADDITIONAL INFORMATION

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APPENDIX F
FIELD ACCIDENT REPORT

P.W. GROSSER CONSULTING, INC.
P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, P.C.
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LONG ISLAND • MANHATTAN • SARATOGA SPRINGS • SYRACUSE • SEATTLE • SHELTON

PWGC
CLIENT DRIVEN SOLUTIONS

FIELD ACCIDENT REPORT

This report is to be filled out by the designated Site Safety Officer after EVERY accident.

PROJECT NAME: _____ PROJECT. NO.: _____

Date of Accident: _____ Time: _____ Report By: _____

Type of Accident (Check One):

( ) Vehicular ( ) Personal ( ) Property

Name of Injured: _____ DOB or Age _____

How Long Employed: _____

Names of Witnesses: _____

Description of Accident: _____

_____

_____

Action Taken: _____

_____

_____

Did the Injured Lose Any Time? _____ How Much (Days/Hrs.)? _____

Was Safety Equipment in Use at the Time of the Accident (Hard Hat, Safety Glasses, Gloves, Safety Shoes, etc.)? _____

_____

_____

(If not, it is the EMPLOYEE'S sole responsibility to process his/her claims through his/her Health and Welfare Fund.)

INDICATE STREET NAMES, DESCRIPTION OF VEHICLES, AND NORTH ARROW

_____

_____

_____