

399 EXTERIOR STREET SITE
399 EXTERIOR STREET
BRONX, NEW YORK 10451
SITE #C203139

REMEDIAL INVESTIGATION WORK PLAN

SUBMITTED TO:



**New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-702**

PREPARED FOR:

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PWGC Project Number: LST1802.A

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**REMEDIAL INVESTIGATION WORK PLAN
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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	Perfluorooctanesulfonamide
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	Perfluoroalkyl and Polyfluoroalkyl Substances
PFBA	Perfluorobutanoic acid
PFBS	Perfluorobutanesulfonic acid
PFDA	Perfluorodecanoic acid
PFDaA	Perfluorododecanoic acid



PFDS	Perfluorodecanesulfonic acid
PFHpA	Perfluoroheptanoic acid
PFHpS	Perfluoroheptanesulfonic acid
PFHxA	Perfluorohexanoic acid
PFHxS	Perfluorohexanesulfonic acid
PFNA	Perfluorononanoic acid
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctanesulfonic acid
PFPeA	Perfluoropentanoic acid
PFTA/PFTeDA	Perfluorotetradecanoic acid
PFTriA/PFTTrDA	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



CERTIFICATION

I, Andrew Lockwood, PG, LEP, 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.

2020.10.16

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.



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 399 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.



2.0 SITE DESCRIPTION AND HISTORY

2.1 Site Description

The site is located at 399 Exterior Street in the Mott Haven section of the Bronx, New York and is identified as Block 2349 and Lot 100R on the New York City Tax Map. The site is approximately 58,165-square feet (sf) and is bounded by commercial properties to the north and south, Exterior Street to the east, and vacant land to the west. The site contains an asphalt paved parking lot. 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 1920s and was used as a freight train support facility until circa 1975. Infrastructure supporting the freight train operation was removed from the site at which time the use of the property transitioned to a parking lot. Between 1975 and the early 1990s it appears the site was inactive. From the early 1990s to 2019 the site was operated as a parking area for school buses. 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. The property is currently unoccupied.

2.6 Current and Future Site Use

The site is currently unoccupied and improved with an at grade parking lot. Development plans for the site consist of the construction of a mixed-use building, open landscaped areas, access roads, and sidewalks. The current zoning designation is C4-4. 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 June 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 June 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 asphalt parking lot. The site inspection did not identify any deficiencies within the proposed Phase II ESA scope of work therefore no additional sample locations were required.

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. The survey did not identify the presence of subsurface anomalies. 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.

Soil Borings and Sampling

To characterize soil quality, soil borings were installed throughout the subject property in two separate events. PWGC installed SB001 through SB006 on May 9 and 10, 2019. PWGC returned to the site to install SB011 and SB013 and collect additional intervals at SB001, SB003, SB005, and SB006 on June 6, 2019. Boring locations were focused in areas of potential concern as identified by the Phase I ESA. A total of 8 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.

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 lead (54,100 milligrams per kilogram (mg/kg)) in SB003 at a depth of 10 to 12 feet below ground surface (bgs) in the sample collected during the May 2019 sampling event. Lead detected in the duplicate sample from 10-12 feet bgs in SB003 during the June 2019 sampling event was 125 mg/kg. In addition, there was a minor RRUSCO exceedance of lead (487 mg/kg) in SB011 at a depth 10 to 12 feet bgs.

Pesticides and polychlorinated biphenyls (PCBs) were not detected above UUSCOs.

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.

SVOCs were detected above ambient water quality standards (AWQS) or guidance values (GVs) in both groundwater samples. The SVOCs detected in the groundwater samples were also observed at elevated concentrations in the soil samples.

Several metals were detected above AWQS or GV. In general, metals were reduced in the dissolved (lab filtered) samples. Dissolved metals in excess of AWQS or GV were limited to manganese, 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.

Volatile organic compounds (VOCs), Pesticides and PCBs were not detected above laboratory method detection limits (MDLs) with the exception of acetone in MW001.

Soil Vapor Sampling

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

Several VOCs were detected above laboratory MDLs at low concentrations.



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 SVOCs and metals.

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.

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.

To determine if subsurface anomalies are present at the site, 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 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:

- 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 nine soil borings will be installed to supplement the characterization of 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 Supplemental Site Characterization

To supplement the existing subsurface soil quality data, a minimum of nine 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 five 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 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 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).

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
Perfluorooctanesulfonic 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
Perfluorooctanesulfonamide	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.



5.0 QUALITY ASSURANCE 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 399 Exterior Street LLC. The following identifies the responsibilities of various organizations supporting the RI:

- The NYSDEC Project Manager (Steven 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 (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 (Michael Gaul) 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 (Janelle Cooley 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:

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 \leq 4 °C	180 days	180 days	16
Mercury	Soil	USEPA 7471B	1 x 4oz, glass	Cool \leq 4 °C	28 days	28 days	16
TCL VOCs	Soil	USEPA 8260C	3 x 40 ml VOA, glass vial	1 x Methanol 2 x DI H ₂ O Cool \leq 4 °C	48 hours	14 Days	16
TCL SVOCs	Soil	USEPA 8270D	1 x 4 oz, glass	Cool \leq 4 °C	14 days	40 days	16
PCBs	Soil	USEPA 8082A	1 x 4 oz, glass	Cool \leq 4 °C	14 days	40 Days	16
Cyanide	Soil	USEPA 9010C/9012B	1 x 4oz, glass	Cool \leq 4 °C	14 days	14 days	16
Cr+6	Soil	USEPA 7196A	1 x 4oz, glass	Cool \leq 4 °C	30 days	30 days	16
Pesticides	Soil	USEPA 8081B	1 x 4 oz, glass	Cool \leq 4 °C	14 days	40 days	16
PFAS	Soil	USEPA 537 (modified)	1 x 8 oz, glass	Cool \leq 4 °C	28 days	28 days	16
1,4-dioxane*	Soil	USEPA 8270 (SIM)	1 x 4oz, glass	Cool \leq 4 °C	14 days	40 days	16

*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	HNO ₃ Cool \leq 4 °C	180 days	180 days	5
Mercury	Water	USEPA 7470A	1 x 250 ml plastic	HNO ₃ Cool \leq 4 °C	28 days	28 days	5
VOCs	Water	USEPA 8260C	3 x 40 ml VOA Vials	HCl Cool \leq 4 °C	None	14 Days	5
SVOCs	Water	USEPA 8270D	2 x 250 ml, amber glass	Cool \leq 4 °C	7 days	40 days	5

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 \leq 4 °C	7 days	40 Days	5
Pesticides	Water	USEPA 8081B	2 x 120 ml, amber glass	Cool \leq 4 °C	7 days	40 days	5
PFAS	Water	USEPA 537 (modified)	4 x 250 ml HDPE, unlined cap	Trizma Cool < 4 °C	14 days	28 days	5
1,4-Dioxane*	Water	USEPA 8270D SIM Mode	2 x 250 ml, Glass	Cool \leq 4 °C	7 days	40 days	5

*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

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.

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	16	1	1	5	1	1
MS/MSD	16	1	1	5	1	1
Equipment Blank	NA	1	1	5	1	1
Field Blank	NA	1	1	5	1	1
Trip Blank	16	1	1	5	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.

- 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.

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.

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.



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 daily field reports, appropriate forms or in a dedicated site logbook. A Daily Field Report will be provided to the NYSDEC PM each day there is remedial work being conducted on-site (sampling, surveying, pile testing, etc.). 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.



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 (if requested). Analytical results of the investigation will be submitted in the electronic data delivery (EDD) format through the Department's environmental information management system (EIMS).



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 399 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 399 Exterior Street LLC for the proposed RI to be performed at the 399 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 399 Exterior Street 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.



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



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

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. Michael Gaul or alternate
- Site Safety Officer – Ms. Janelle Cooley 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 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 VOCs, PCBs or Pesticides were detected at concentrations in excess of the RRUSCOs.

SVOCs:

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;
- 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.

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.

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.

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.

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 ($\mu\text{g}/\text{m}^3$) 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 $\mu\text{g}/\text{m}^3$ 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 $\mu\text{g}/\text{m}^3$ 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 $\mu\text{g}/\text{m}^3$ 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.



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.



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 August 2020, following approval of this RIWP by NYSDEC. A draft RI Report should be submitted to the NYSDEC by September 2020.



10.0 REFERENCES

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

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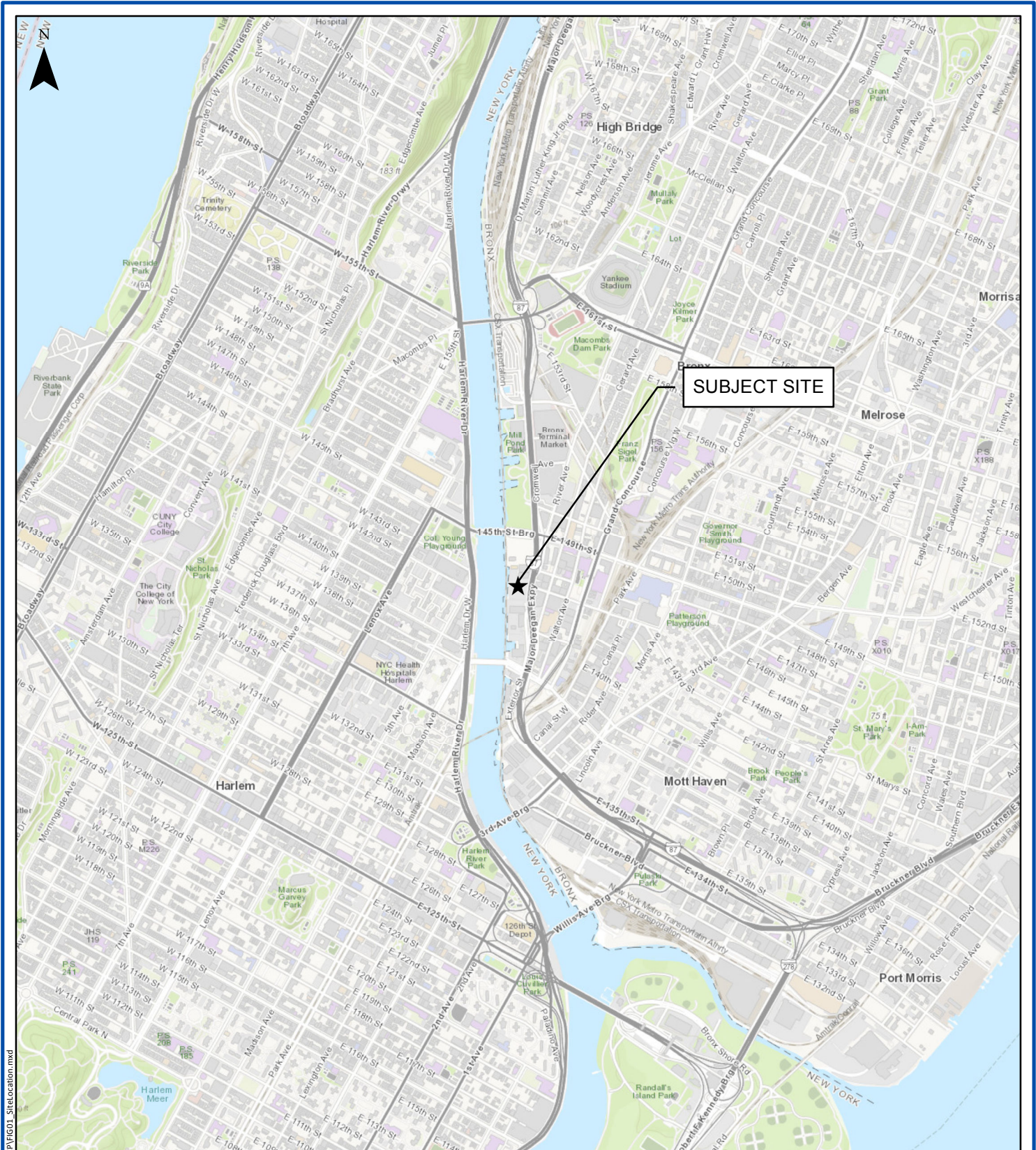
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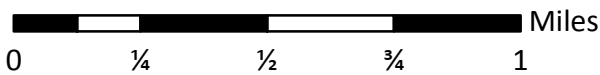


FIGURES



SITE LOCATION

399 Exterior Street
Bronx, NY



Project:	LST1802.A
Date:	1/20/2020
Designed by:	DE
Drawn by:	TS
Approved by:	DE
Figure No:	1

Document path: W:\Projects\E-L\ST1802.A\MapA\B\CP\FIG01_SiteLocation.mxd

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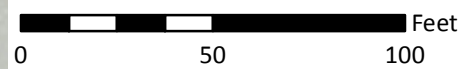



Harlem River


Block: 2349
Lot: 100R

Major Deegan Expy

E 144 St



 Site Boundary

 Tax Lot Boundary



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REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

Project:	LST1802.A	Designed by:	DE
Date:	5/6/2020	Drawn by:	TS
Scale:	AS SHOWN	Approved by:	DE

Site Plan

399 Exterior Street
Bronx, NY

FIGURE NO:
2



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Proposed Soil Boring Locations

399 Exterior Street
Bronx, NY

FIGURE NO:

3



Initial Sampling

- Soil Boring
- Soil Boring and Monitoring Well

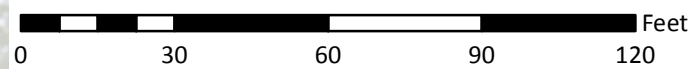
Supplemental Sampling

- Proposed Soil Boring
- Site Boundary
- Tax Lot Boundary



Harlem River

Major Deegan Expy



Initial Sampling

- Soil Boring and Monitoring Well

Supplemental Sampling

- Proposed MW
- Tax Lot Boundary
- Site Boundary



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**Proposed
Monitoring Well
Locations**

399 Exterior Street
Bronx, NY

FIGURE NO:
4



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REVISION	DATE	INITIAL	COMMENTS

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Date:	5/6/2020	Drawn by:	TS
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Proposed Soil Vapor Locations

399 Exterior Street
Bronx, NY

FIGURE NO:
5

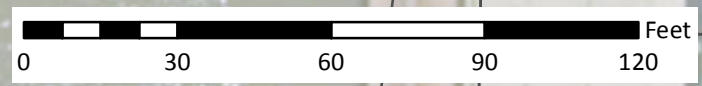


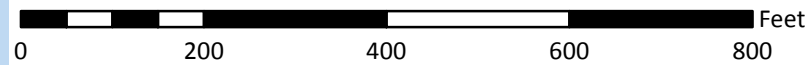
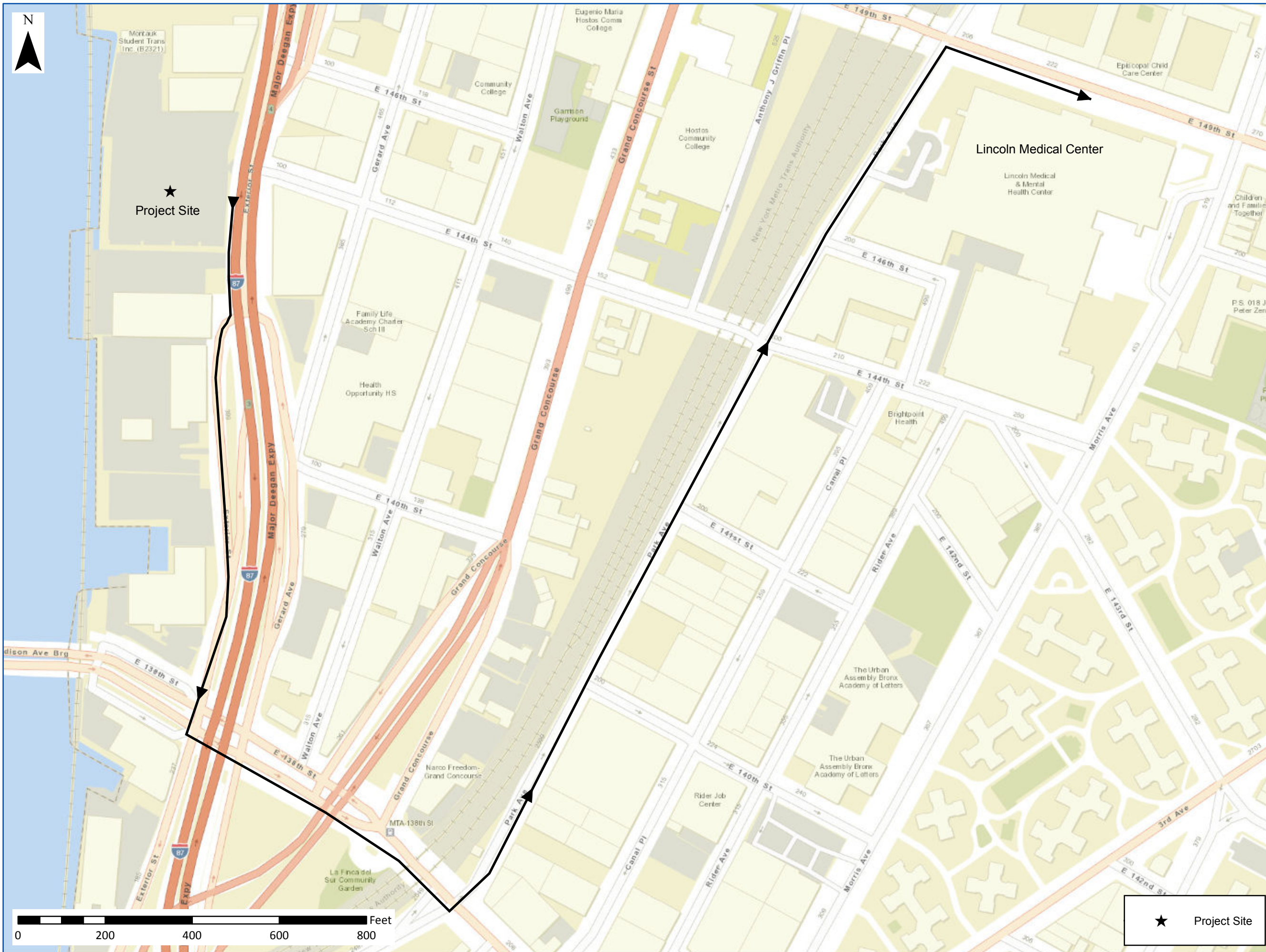
Site Boundary
[Red outline]

Tax Lot Boundary
[Black outline]

Initial Sampling
● Soil Vapor

Supplemental Sampling
● Proposed SV





★ Project Site



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REVISION	DATE	INITIAL	COMMENTS

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HOSPITAL ROUTE

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

FIGURE NO:
6



TABLE



APPENDIX A PHASE II ESA REPORT

LST1802.A –Remedial Investigation Work Plan

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399 EXTERIOR STREET
BRONX, NEW YORK
BLOCK 2349, PORTION OF LOT 100

**PHASE II
ENVIRONMENTAL SITE ASSESSMENT
(ASTM 1903-11)**

PREPARED FOR:

399 Exterior Street LLC
3150 Brunswick Pike, Suite 310
Lawrenceville, New Jersey 08648

PREPARED BY:



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PWGC Project Number: LST1802.A

JANUARY 2020



**PHASE II ENVIRONMENTAL SITE ASSESSMENT
399 EXTERIOR STREET, BRONX, NEW YORK**

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**PHASE II ENVIRONMENTAL SITE ASSESSMENT
399 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
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

399 Exterior Street LLC retained P.W. Grosser Consulting, Inc. (PWGC) to prepare a Phase II Environmental Site Assessment (ESA) for the property located at 399 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).



2.0 BACKGROUND

2.1 Site Description and Features

The subject property consists of a parcel located at 399 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, portion of Lot 100. A site location map is included as **Figure 1**.

The subject property measures approximately 1.25 acres and is occupied by 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 1920s and was used as a freight train support facility until circa 1975. Infrastructure supporting the freight train operation was removed from the site at which time the use of the property transitioned to a parking lot. Between 1975 and the early 1990s it appears the site was inactive. From the early 1990s to 2019 the site was operated as a parking area for school buses.

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 399 Exterior Street in December of 2018 by PWGC. The Phase I ESA was performed for the entire Lot 100. The Phase I ESA identified the following RECs associated with the portion of lot 100 purchased by the Client.

- 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.

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



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 Quality 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. Ms. Janelle Cooley of PWGC performed a visual inspection on May 9, 2019. The inspection consisted of the asphalt parking lot. 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. Descriptions of the geophysical methods are described below.

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 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 two separate events. PWGC installed SB001 through SB006 on May 9 and 10, 2019. PWGC returned to the site to install SB011 and SB013 and collect additional intervals at SB001, SB003, SB005, and SB006 on June 6, 2019. Boring locations were focused in areas of potential concern as identified by the Phase I ESA. A total of 8 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). Volatile organic vapors were not detected in the soil cores. 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.

PWGC returned to the site on June 6, 2019 to collect two additional exterior soil borings (SB011 and SB013) to supplement the existing data set. Additionally, deeper samples were collected from the 6'-8' and 8'-10' intervals of SB001, the 8-10', 10-12', and 12-14' intervals of SB003, the 4-6' interval from SB005, and the 8-10' interval from SB006 which were originally sampled in May of 2019.

3.4.2 Sample Collection Protocol

To characterize subsurface soil conditions, a total of 29 soil samples were collected from 8 soil borings and depth intervals spread out throughout the site during the initial investigation and supplemental subsurface investigation.

The core section representative of a sample was 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) Semi-Volatile Organic Compounds (SVOCs) by USEPA Method 8270;
- Organochlorine Pesticides & PCBs by USEPA Methods 8081/8082;
- Target Analyte List (TAL) Metals by USEPA Methods 6010/7471

SVOCs, organochlorine pesticides, PCBs and metals were analyzed within every soil sample collected during the May 2019 sampling event to address the RECs identified within the Phase I ESA. Samples collected during the June 2019 sampling event were analyzed for specific analytes to further delineate impacts identified during the May 2019 sampling event.



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 lead (54,100 milligrams per kilogram (mg/kg)) in SB003 at a depth of 10 to 12 feet bgs in the sample collected during the May 2019 sampling event. Lead detected in the duplicate sample from 10-12 feet bgs in SB003 during the June 2019 sampling event was 125 mg/kg. In addition, there was a minor RRUSCO exceedance of lead (487 mg/kg) in SB011 at a depth 10 to 12 feet bgs.

Pesticides and PCBs were not detected above UUSCOs.

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

3.5 Groundwater Quality Investigation

To characterize 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. Groundwater sampling locations are illustrated on **Figure 3**.

3.5.1 Sampling Collection Protocol

Following the completion of the soil borings at SB003 and SB004, Coastal installed a prepacked 2" polyvinyl chloride (PVC) temporary well point in each borehole. MW001 was installed within the boring for SB003 and MW002 was installed within the boring for SB004. 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 temporary well point. 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 well 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.

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.

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, manganese, 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.

VOCs, Pesticides and PCBs were not detected above laboratory method detection limits with the exception of acetone in one of the two samples.

Analytical results are detailed in **Tables 2 through 5**, summarized on **Figure 3**, and the complete laboratory analytical report is included in **Appendix C**.

3.6 **Soil Vapor Quality Investigation**

To evaluate soil vapor quality at the subject property, a soil vapor sample was collected from beneath the asphalt parking lot.

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 canister 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. Prior to sampling, the integrity of the sampling port seal was tested using tracer gas analysis. The environment surrounding the 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 6** and summarized on **Figure 4**. The laboratory data report is included as **Appendix C**. Several VOCs were detected above laboratory method detection limits at low concentrations. There were no significantly elevated compounds.



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 Quality Investigation

4.1 Conclusions

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

- The site inspection did not identify any additional RECs.
- 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 two samples.
- Groundwater conditions appear to be at typical levels for an industrial area.
- The soil vapor sample collected did not identify any significant concentrations of VOCs in soil vapor.

4.2 Recommendations

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

- Future construction activities at the site should take into consideration the quality of the fill material and native soils at the site.



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.

Andrew Lockwood, PG, LEP
Senior Vice President

Report Completion Date: 2020.01.10



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.



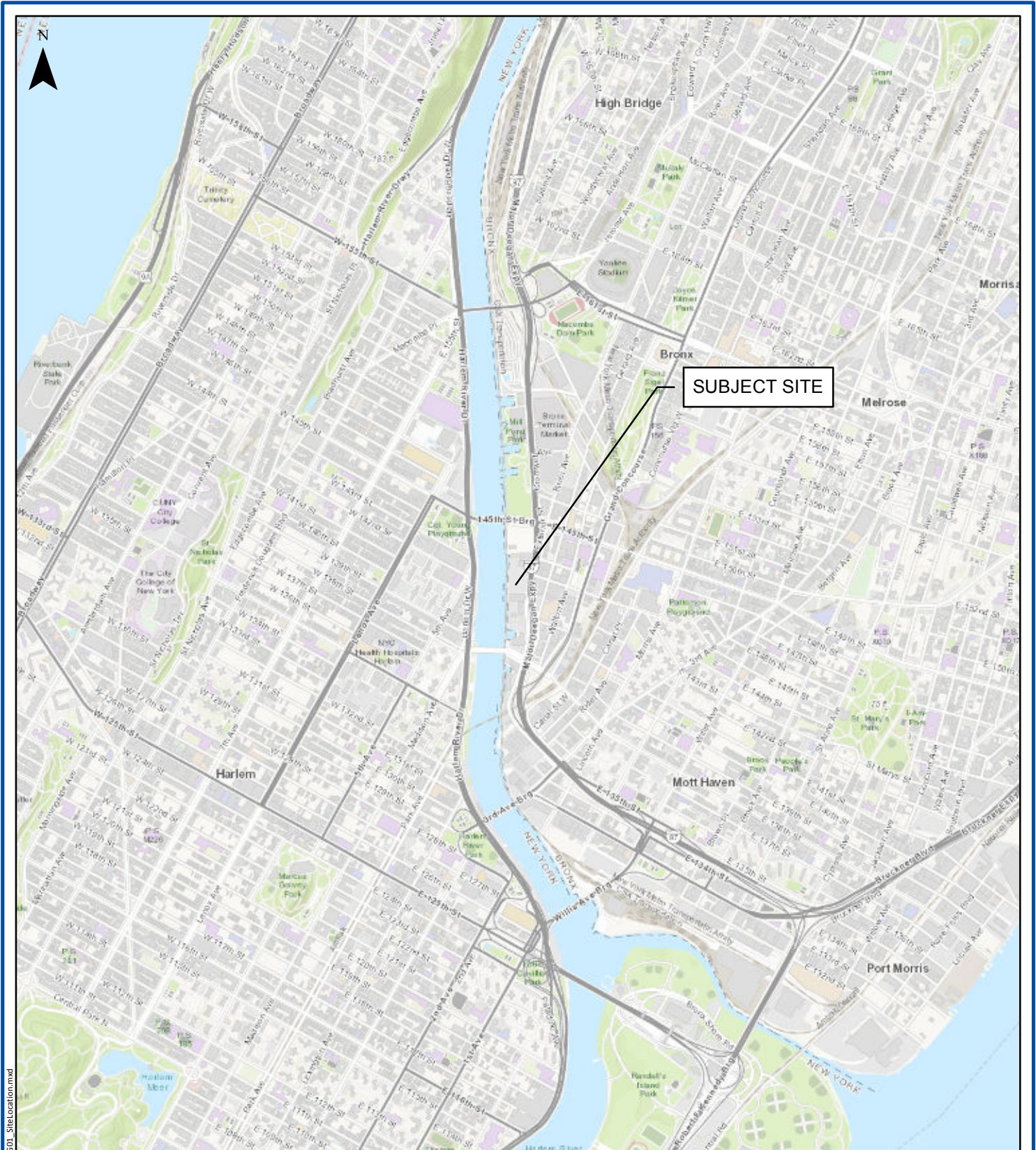
7.0 LIMITATIONS

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.



FIGURES



Document path: W:\Projects\E-115171-1802-A\maps\FIG01_SiteLocation.mxd



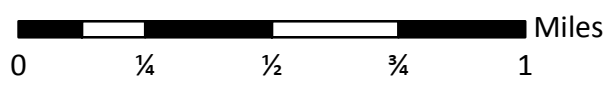
PWGC
CLIENT DRIVEN SOLUTIONS

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SITE LOCATION

399 Exterior Street
Bronx, NY



Project:	1802.A
Date:	1/10/2020
Designed by:	DE
Drawn by:	PH
Approved by:	DE
Figure No:	1



Analyte:	SB001				
	0-2' 5/10/2019	2-4' 5/10/2019	4-6' 5/10/2019	6-8' 6/6/2019	8-10' 6/6/2019
Method: 8270 D - SVOCs (GC/MS) - (mg/kg)					
Benzo(a)anthracene	1.59	1.11	3.12	3.2	0.16
Benzo(a)pyrene	1.64	1.16	3.51	3.1	0.15
Benzo(b)fluoranthene	1.42	0.949	3.20	4.2	0.2
Benzo(k)fluoranthene	1.24	0.902	2.68	1.4	0.068
Chrysene	1.40	0.991	2.58	2.6	0.14
Dibenzo(a,h)anthracene	0.325	0.212	0.727	0.53	0.026
Indeno(1,2,3-cd)Pyrene	1.27	0.890	2.81	2.2	0.1
Method: 6010C - Metals (ICP) - (mg/kg)					
Arsenic, Total	5.08	4.53	4.98	-	-
Barium, Total	144	115	100	-	-
Cadmium, Total	1.68	1.36	0.963	-	-
Calcium, Total	26,100	14,700	16,700	-	-
Chromium, Total	16.2	15.6	17.7	-	-
Copper, Total	188	52.5	50.6	-	-
Lead, Total	962	1,280	464	48.3	-
Manganese, Total	300	279	487	-	-
Nickel, Total	17.6	16.3	18.8	-	-
Selenium, Total	3.15	2.91	3.08	-	-
Zinc, Total	370	639	410	-	-
Method: 7471B - Mercury (CVAA) - (mg/kg)					
Mercury, Total	0.502	0.425	0.708	-	-
Method: 8081B - Organochlorine Pesticides (GC) - (mg/kg)					
4,4'-DDD	0.00205	U	0.00192	U	-
4,4'-DDT	0.00205	U	0.00192	U	-

Analyte:	SB002		
	0-2' 5/10/2019	4-6' 5/10/2019	6-8' 5/10/2019
Method: 8270 D - SVOCs (GC/MS) - (mg/kg)			
Benzo(a)anthracene	0.407	U	3.13
Benzo(a)pyrene	0.407	U	3.00
Benzo(b)fluoranthene	0.407	U	2.30
Benzo(k)fluoranthene	0.407	U	1.94
Chrysene	0.407	U	2.68
Dibenzo(a,h)anthracene	0.407	U	1.34
Indeno(1,2,3-cd)Pyrene	0.407	U	2.15
Method: 6010C - Metals (ICP) - (mg/kg)			
Arsenic, Total	2.59	7.26	11.7
Barium, Total	103	245	73.5
Cadmium, Total	0.394	1.18	0.431
Chromium, Total	12.1	17.0	20.3
Copper, Total	26.9	151	52.4
Lead, Total	56.0	459	137
Manganese, Total	176	266	277
Nickel, Total	10.7	18.9	21.4
Selenium, Total	3.28	3.23	3.06
Zinc, Total	96.1	446	94.8
Method: 7471B - Mercury (CVAA) - (mg/kg)			
Mercury, Total	0.272	0.616	0.236
Method: 8081B - Organochlorine Pesticides (GC) - (mg/kg)			
4,4'-DDD	0.00214	U	0.00212
4,4'-DDT	0.00214	U	0.00201

Analyte:	SB003					
	0-2' 5/10/2019	6-8' 5/10/2019	8-10' 6/6/2019	10-12' 5/10/2019	10-12' 6/6/2019	12-14' 6/6/2019
Method: 8270 D - SVOCs (GC/MS) - (mg/kg)						
Benzo(a)anthracene	7.80	0.370	-	0.0532	U	-
Benzo(a)pyrene	7.08	0.352	-	0.0532	U	-
Benzo(b)fluoranthene	6.38	0.240	-	0.0532	U	-
Benzo(k)fluoranthene	5.00	0.230	-	0.0532	U	-
Chrysene	7.17	0.313	-	0.0532	U	-
Dibenzo(a,h)anthracene	1.24	0.0463	U	0.0532	U	-
Indeno(1,2,3-cd)Pyrene	5.26	0.204	-	0.0532	U	-
Method: 6010C - Metals (ICP) - (mg/kg)						
Arsenic, Total	4.73	3.78	-	2.06	-	-
Barium, Total	464	103	-	39.4	-	-
Cadmium, Total	1.11	0.337	U	0.384	U	-
Chromium, Total	21.9	22.0	-	17.1	-	-
Copper, Total	94.7	24.5	-	17.7	-	-
Lead, Total	342	53.9	46.1	54,100	125	19.6
Manganese, Total	289	457	-	108	-	-
Nickel, Total	25.4	22.5	-	16.7	-	-
Selenium, Total	2.79	2.81	U	3.20	U	-
Zinc, Total	402	57.6	-	30.9	-	-
Method: 7471B - Mercury (CVAA) - (mg/kg)						
Mercury, Total	0.446	0.323	-	0.0384	U	-
Method: 8081B - Organochlorine Pesticides (GC) - (mg/kg)						
4,4'-DDD	0.00183	U	0.00184	U	-	-
4,4'-DDT	0.00183	U	0.00184	U	-	-

Analyte:	CAS Number	NYSDEC ⁽¹⁾		NYSDEC ⁽¹⁾	
		Soil Cleanup Objectives Unrestricted Use	Soil Cleanup Objectives Restricted-Residential Use	Soil Cleanup Objectives Unrestricted Use	Soil Cleanup Objectives Restricted-Residential Use
Method: 8270 D - SVOCs (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 ^b	-	1 ^b	-
Benzo(a)pyrene	50-32-8	1 ^b	-	1 ^b	-
Benzo(b)fluoranthene	205-99-2	1 ^b	-	1 ^b	-
Benzo(k)fluoranthene	207-08-9	0.8 ^b	-	3.9	-
Chrysene	218-01-9	1 ^b	-	3.9	-
Dibenzo(a,h)anthracene	53-70-3	0.33 ^b	-	0.33 ^b	-
Indeno(1,2,3-cd)Pyrene	193-39-5	0.5 ^b	-	0.5 ^b	-
Method: 6010C - Metals (ICP) - (mg/kg)					
Arsenic, Total	7440-38-2	13 ^c	-	16 ^c	-
Barium, Total	7440-39-3	350 ^d	-	400	-
Cadmium, Total	7440-43-9	2.5 ^e	-	4.3	-
Chromium, Total	7440-47-3	30 ^f	-	180 ^g	-
Copper, Total	7440-50-8	50	-	270	-
Lead, Total	7439-92-1	63 ^h	-	400	-
Manganese, Total	7439-96-5	1,600 ⁱ	-	2,000 ^j	-
Nickel, Total	7440-02-0	30	-	310	-
Selenium, Total	7782-49-2	3.9 ^k	-	180	-
Zinc, Total	7440-66-6	109 ^l	-	10,000 ^m	-
Method: 7471B - Mercury (CVAA) - (mg/kg)					
Mercury, Total	7439-97-6	0.18 ⁿ	-	0.81 ^o	-
Method: 8081B - Organochlorine Pesticides (GC) - (mg/kg)					
4,4'-DDD	72-54-8	0.0033 ^p	-	13	-
4,4'-DDT	50-29-3	0.0033 ^p	-	7.9	-

Analyte:	SB013	
	6-8' 6/6/2019	6/6/2019
Method: 8270 D - SVOCs (GC/MS) - (mg/kg)		
Benzo(a)anthracene	0.1	J
Benzo(a)pyrene	0.11	J
Benzo(b)fluoranthene	0.13	J
Benzo(k)fluoranthene	0.048	J
Chrysene	0.099	J
Dibenzo(a,h)anthracene	0.022	U
Indeno(1,2,3-cd)Pyrene	0.082	J
Method: 6010C - Metals (ICP) - (mg/kg)		
Arsenic, Total	2.02	-
Barium, Total	65.9	-
Copper, Total	23.8	-
Lead, Total	10.0	-
Method: 7471B - Mercury (CVAA) - (mg/kg)		
Mercury, Total	0.052	U

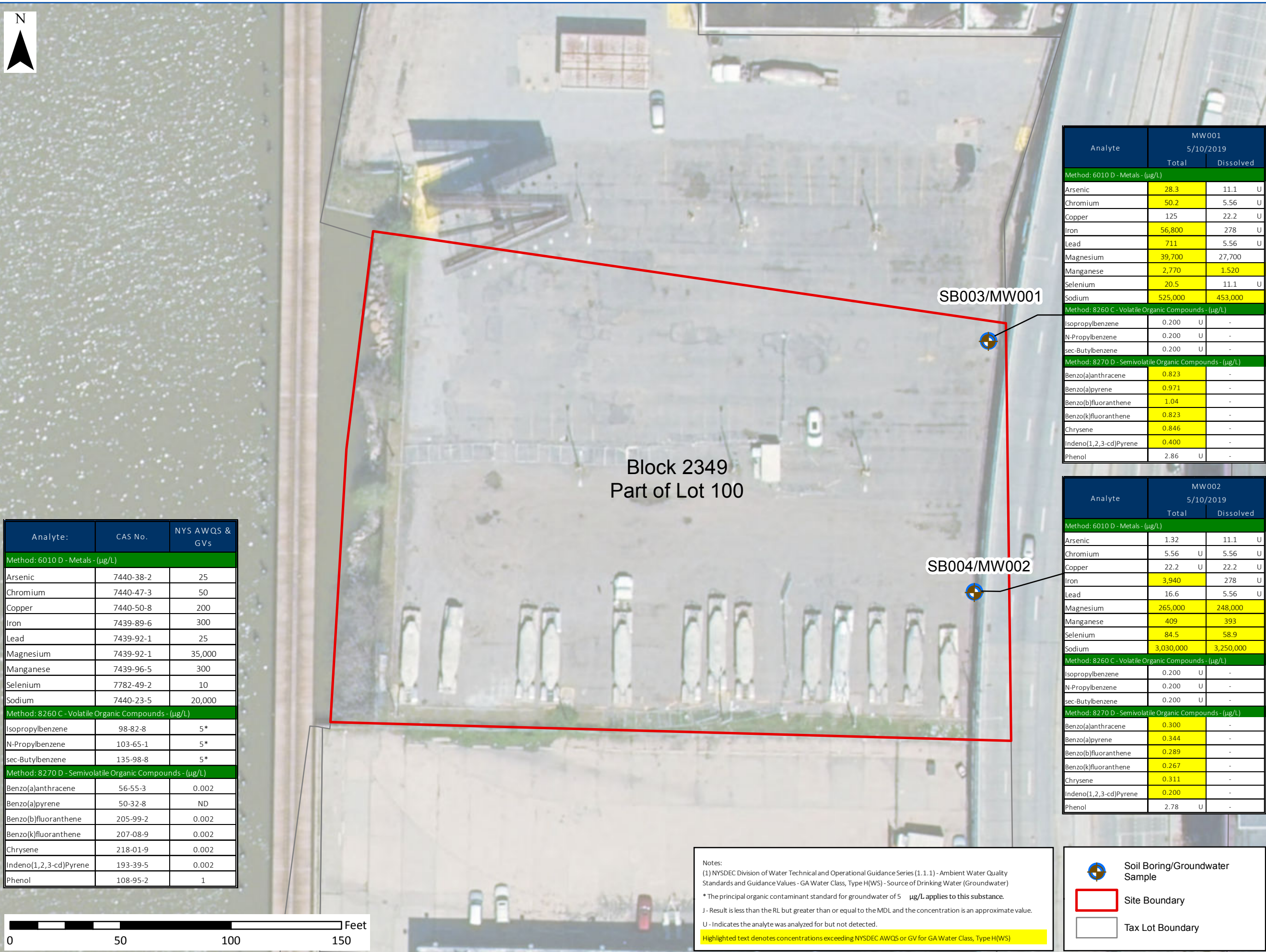
Analyte:	SB011		
	8-10' 6/6/2019	10-12' 6/6/2019	12-14' 6/6/2019
Method: 6010C - Metals (ICP) - (mg/kg)			
Lead, Total	189	487	57.6

Analyte:	SB004		
	0-2' 5/10/2019	2-4' 5/10/2019	4-6' 5/10/2019
Method: 8270 D - SVOCs (GC/MS) - (mg/kg)			
Benzo(a)anthracene	8.92	2.55	1.97
Benzo(a)pyrene	7.83	2.53	2.30
Benzo(b)fluoranthene	6.63	2.03	1.62
Benzo(k)fluoranthene	5.71	1.69	1.28
Chrysene	7.64	2.35	1.82
Dibenzo(a,h)anthracene	1.07	0.350	0.288
Indeno(1,2,3-cd)Pyrene	5.53	1.79	1.49
Method: 6010C - Metals (ICP) - (mg/kg)			
Arsenic, Total	5.15	7.13	9.12
Barium, Total	175	162	77.3
Cadmium, Total	3.05	1.05	0.507
Chromium, Total	72.2	31.3	12.8
Copper, Total	224	315	165
Lead, Total	576	307	148
Manganese, Total	303	436	242
Nickel, Total	74.1	31.7	15.3
Selenium, Total	3.34	3.77	3.26
Zinc, Total	966	462	218
Method: 7471B - Mercury (CVAA) - (mg/kg)			
Mercury, Total	0.289	0.339	0.127
Method: 8081B - Organochlorine Pesticides (GC) - (mg/kg)			
4,4'-DDD	0.00220	U	0.00180
4,4'-DDT	0.00220	U	0.00180

Analyte:	SB006			
	0-2' 5/10/2019	4-6' 5/10/2019	6-8' 5/10/2019	8-10' 6/6/2019
Method: 8270 D - SVOCs (GC/MS) - (mg/kg)				
Benzo(a)anthracene	0.311	0.0427	U	0.312
Benzo(a)pyrene	0.364	0.0427	U	0.318
Benzo(b)fluoranthene	0.311	0.0427	U	0.247
Benzo(k)fluoranthene	0.242	0.0427	U	0.203
Chrysene	0.294	0.0427	U	0.300
Dibenzo(a,h)anthracene	0.0597	U	0.0427	U
Indeno(1,2,3-cd)Pyrene	0.284	0.0427	U	0.217
Method: 6010C - Metals (ICP) - (mg/kg)				
Arsenic, Total	2.26	1.54	U	2.26
Barium, Total	120	7.05	45.7	-
Cadmium, Total	0.707	0.307	U	0.908
Chromium, Total	17.7	2.90	13.3	-
Copper, Total	105	5.54	275	38.3
Lead, Total	474	7.67	160	-
Manganese, Total	175	40	123	-
Nickel, Total	14.7	3.27	16.7	-
Selenium, Total	3.07	2.56	U	2.94
Zinc, Total	262	26.4	709	-
Method: 7471B - Mercury (CVAA) - (mg/kg)				
Mercury, Total	3.49	0.0375	0.278	-
Method: 8081B - Organochlorine Pesticides (GC) - (mg/kg)				
4,4'-DDD	0.00202	U	0.00168	U
4,4'-DDT	0.00202	U	0.00168	U

Analyte:	SB005			
	0-2' 5/10/2019	2-4' 5/10/2019	4-6' 6/6/2019	8-10' 5/10/2019
Method: 8270 D - SVOCs (GC/MS) - (mg/kg)				
Benzo(a)anthracene	0.341	6.02	0.02	0.245
Benzo(a)pyrene	0.261	4.92	0.042	0.323
Benzo(b)fluoranthene	0.261	4.57	0.03	0.240
Benzo(k)fluoranthene	0.261	4.04	0.028	0.206
Chrysene	0.295	5.75	0.018	0.258
Dibenzo(a,h)anthracene	0.261	0.782	0.02	0.0597
Indeno(1,2,3-cd)Pyrene	0.261	3.33	0.024	0.265
Method: 6010C - Metals (ICP) - (mg/kg)				
Arsenic, Total	7.54	3.87	-	2.09
Barium, Total	200	131	-	63.5
Cadmium, Total	0.452	1.19	-	0.376
Chromium, Total	18.3	26.4	-	13.3
Copper, Total	35.6	241	-	17.6
Lead, Total	105	432	3.02	90.8
Manganese, Total	197	338	-	247
Nickel, Total	13.7	105	-	14.0
Selenium, Total	9.92	3.04	U	3.13
Zinc, Total	210	781	-	47.5
Method: 7471B - Mercury (CVAA) - (mg/kg)				
Mercury, Total	0.145	0.338	-	0.662
Method: 8081B - Organochlorine Pesticides (GC) - (mg/kg)				
4,4'-DDD	0.00207	U	0.00200	U
4,4'-DDT	0.00207	U	0.00200	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 Restricted Use of Soil Cleanup Objective Table 375-6.8b 12/06
 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



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



Analyte	MW001 5/10/2019		
	Total	Dissolved	
Method: 6010 D - Metals - (µg/L)			
Arsenic	28.3	11.1	U
Chromium	50.2	5.56	U
Copper	125	22.2	U
Iron	56,800	278	U
Lead	711	5.56	U
Magnesium	39,700	27,700	
Manganese	2,770	1,520	
Selenium	20.5	11.1	U
Sodium	525,000	453,000	
Method: 8260 C - Volatile Organic Compounds - (µg/L)			
Isopropylbenzene	0.200	U	-
N-Propylbenzene	0.200	U	-
sec-Butylbenzene	0.200	U	-
Method: 8270 D - Semivolatile Organic Compounds - (µg/L)			
Benzo(a)anthracene	0.823	-	
Benzo(a)pyrene	0.971	-	
Benzo(b)fluoranthene	1.04	-	
Benzo(k)fluoranthene	0.823	-	
Chrysene	0.846	-	
Indeno(1,2,3-cd)Pyrene	0.400	-	
Phenol	2.86	U	-

Analyte	MW002 5/10/2019		
	Total	Dissolved	
Method: 6010 D - Metals - (µg/L)			
Arsenic	1.32	11.1	U
Chromium	5.56	5.56	U
Copper	22.2	22.2	U
Iron	3,940	278	U
Lead	16.6	5.56	U
Magnesium	265,000	248,000	
Manganese	409	393	
Selenium	84.5	58.9	
Sodium	3,030,000	3,250,000	
Method: 8260 C - Volatile Organic Compounds - (µg/L)			
Isopropylbenzene	0.200	U	-
N-Propylbenzene	0.200	U	-
sec-Butylbenzene	0.200	U	-
Method: 8270 D - Semivolatile Organic Compounds - (µg/L)			
Benzo(a)anthracene	0.300	-	
Benzo(a)pyrene	0.344	-	
Benzo(b)fluoranthene	0.289	-	
Benzo(k)fluoranthene	0.267	-	
Chrysene	0.311	-	
Indeno(1,2,3-cd)Pyrene	0.200	-	
Phenol	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 5 µg/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)

Soil Boring/Groundwater Sample
 Site Boundary
 Tax Lot Boundary



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UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING AND RELATED DOCUMENTS IS A VIOLATION OF SEC. 7209 OF THE N.Y.S. EDUCATION LAW

DRAWING PREPARED FOR:

399 Exterior Street LLC
 3150 Brunswick Pike, Suite 310
 Lawrenceville, New Jersey 08648

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

Project:	LST1802.A	Designed by:	DE
Date:	1/10/2020	Drawn by:	TS
Scale:	AS SHOWN	Approved by:	DE

Groundwater Sample Exceedances

399 Exterior Street
 Bronx, NY

FIGURE NO:
 3



TABLES

Table 2
Groundwater Analytical Summary Tables for Volatile Organic Compounds

Client Sample ID: Sampling Date: Laboratory ID:	CAS No.	NYS AWQS & GVs June 1998 ⁽¹⁾	MW001 5/10/2019 19E0591-31	MW002 5/10/2019 19E0591-32
Method: 8260 C - Volatile Organic Compounds - (µg/L)				
1,1,1,2-Tetrachloroethane	630-20-6	5*	0.200 U	0.200 U
1,1,1-Trichloroethane	71-55-6	5*	0.200 U	0.200 U
1,1,2,2-Tetrachloroethane	79-34-5	5*	0.200 U	0.200 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5*	0.200 U	0.200 U
1,1,2-Trichloroethane	79-00-5	1	0.200 U	0.200 U
1,1-Dichloroethane	75-34-3	5*	0.200 U	0.200 U
1,1-Dichloroethene	75-35-4	5*	0.200 U	0.200 U
1,1-Dichloropropylene	563-58-6	5*	0.200 U	0.200 U
1,2,3-Trichlorobenzene	87-61-6	5*	0.200 U	0.200 U
1,2,3-Trichloropropane	96-18-4	0.04	0.200 U	0.200 U
1,2,4-Trichlorobenzene	120-82-1	5*	0.200 U	0.200 U
1,2,4-Trimethylbenzene	95-63-6	5*	0.200 U	0.200 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	0.200 U	0.200 U
1,2-Dibromoethane	106-93-4	0.0006	0.200 U	0.200 U
1,2-Dichlorobenzene	95-50-1	3**	0.200 U	0.200 U
1,2-Dichloroethane	107-06-2	0.6	0.200 U	0.200 U
1,2-Dichloropropane	78-87-5	1	0.200 U	0.200 U
1,3,5-Trimethylbenzene	108-67-8	5*	0.200 U	0.200 U
1,3-Dichlorobenzene	541-73-1	3**	0.200 U	0.200 U
1,3-Dichloropropane	142-28-9	5*	0.200 U	0.200 U
1,4-Dichlorobenzene	106-46-7	3**	0.200 U	0.200 U
1,4-Dioxane	123-91-1	NS	40.0 U	40.0 U
2,2-Dichloropropane	594-20-7	5*	0.200 U	0.200 U
2-Butanone	78-93-3	50	0.200 U	0.200 U
2-Chlorotoluene	95-49-8	5*	0.200 U	0.200 U
2-Hexanone	591-78-6	50	0.200 U	0.200 U
4-Chlorotoluene	106-43-4	5*	0.200 U	0.200 U
4-Methyl-2-pentanone	108-10-1	NS	0.200 U	0.200 U
Acetone	67-64-1	50	1.06 J	1.00 U
Acrolein	107-02-8	5*	0.200 U	0.200 U
Acrylonitrile	107-13-1	5*	0.200 U	0.200 U
Benzene	71-43-2	1	0.200 U	0.200 U
Bromobenzene	108-86-1	5*	0.200 U	0.200 U
Bromochloromethane	74-97-5	5*	0.200 U	0.200 U
Bromodichloromethane	75-27-4	50	0.200 U	0.200 U
Bromoform	75-25-2	50	0.200 U	0.200 U
Bromomethane	74-83-9	5*	0.200 U	0.200 U
Carbon Disulfide	75-15-0	60	0.200 U	0.200 U
Carbon Tetrachloride	56-23-5	5	0.200 U	0.200 U
Chlorobenzene	108-90-7	5*	0.200 U	0.200 U
Chloroethane	75-00-3	5*	0.200 U	0.200 U
Chloroform	67-66-3	7	0.200 U	0.200 U
Chloromethane	74-87-3	5*	0.200 U	0.200 U
cis-1,2-Dichloroethylene	156-59-2	5*	0.200 U	0.200 U
cis-1,3-Dichloropropylene	10061-01-5	0.4***	0.200 U	0.200 U
Cyclohexane	110-82-7	NS	0.200 U	0.200 U
Dibromochloromethane	124-48-1	50	0.200 U	0.200 U
Dibromomethane	74-95-3	5*	0.200 U	0.200 U
Dichlorodifluoromethane	75-71-8	5*	0.200 U	0.200 U
Ethyl Benzene	100-41-4	5*	0.200 U	0.200 U
Hexachlorobutadiene	87-68-3	0.5	0.200 U	0.200 U
Isopropylbenzene	98-82-8	5*	0.200 U	0.200 U
Methyl acetate	79-20-9	NS	0.200 U	0.200 U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	0.200 U	0.200 U
Methylcyclohexane	108-87-2	NS	0.200 U	0.200 U
Methylene chloride	75-09-2	5*	1.00 U	1.00 U
n-Butylbenzene	104-51-8	5*	0.200 U	0.200 U
N-Propylbenzene	103-65-1	5*	0.200 U	0.200 U
o-Xylene	95-47-6	5*	0.200 U	0.200 U
p- & m- Xylenes	179601-23-1	5*	0.500 U	0.500 U
p-Isopropyltoluene	99-87-6	5*	0.200 U	0.200 U
sec-Butylbenzene	135-98-8	5*	0.200 U	0.200 U
Styrene	100-42-5	5*	0.200 U	0.200 U
tert-Butyl alcohol (TBA)	75-65-0	NS	0.200 U	0.200 U
tert-Butylbenzene	98-06-6	5*	0.200 U	0.200 U
Tetrachloroethene	127-18-4	5*	0.200 U	0.200 U
Toluene	108-88-3	5*	0.200 U	0.200 U
trans-1,2-Dichloroethylene	156-60-5	5*	0.200 U	0.200 U
trans-1,3-Dichloropropylene	10061-02-6	0.4***	0.200 U	0.200 U
Trichloroethene	79-01-6	5*	0.200 U	0.200 U
Trichlorofluoromethane	75-69-4	5*	0.200 U	0.200 U
Vinyl acetate	108-05-4	NS	0.200 U	0.200 U
Vinyl Chloride	75-01-4	2	0.200 U	0.200 U
Xylenes, Total	1330-20-7	5*	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(W) - 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(W)

Table 3
Groundwater Analytical Summary Tables for Semivolatile Organic Compounds

Client Sample ID: Sampling Date: Laboratory ID:	CAS No.	NYS AWQS & GV's June 1998 ⁽¹⁾	MW001 5/10/2019 19E0591-31	MW002 5/10/2019 19E0591-32
Method: 8270 D - Semivolatile Organic Compounds - (µg/L)				
1,1-Biphenyl	92-52-4	5*	2.86 U	2.78 U
1,2,4,5-Tetrachlorobenzene	95-94-3	5*	2.86 U	2.78 U
1,2,4-Trichlorobenzene	120-82-1	5*	2.86 U	2.78 U
1,2-Dichlorobenzene	95-50-1	3	2.86 U	2.78 U
1,2-Diphenylhydrazine	122-66-7	ND	2.86 U	2.78 U
1,3-Dichlorobenzene	541-73-1	3	2.86 U	2.78 U
1,4-Dichlorobenzene	106-46-7	3	2.86 U	2.78 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	2.86 U	2.78 U
2,4,5-Trichlorophenol	95-95-4	NS	2.86 U	2.78 U
2,4,6-Trichlorophenol	88-06-2	NS	2.86 U	2.78 U
2,4-Dichlorophenol	120-83-2	5*	2.86 U	2.78 U
2,4-Dimethylphenol	105-67-9	50	2.86 U	2.78 U
2,4-Dinitrophenol	51-28-5	10	2.86 U	2.78 U
2,4-Dinitrotoluene	121-14-2	5*	2.86 U	2.78 U
2,6-Dinitrotoluene	606-20-2	5*	2.86 U	2.78 U
2-Chloronaphthalene	91-58-7	10	2.86 U	2.78 U
2-Chlorophenol	95-57-8	NS	2.86 U	2.78 U
2-Methylnaphthalene	91-57-6	NS	2.86 U	2.78 U
2-Methylphenol	95-48-7	NS	2.86 U	2.78 U
2-Nitroaniline	88-74-4	5*	2.86 U	2.78 U
2-Nitrophenol	88-75-5	NS	2.86 U	2.78 U
3- & 4-Methylphenols	65794-96-9	NS	2.86 U	2.78 U
3,3-Dichlorobenzidine	91-94-1	5*	2.86 U	2.78 U
3-Nitroaniline	99-09-2	5*	2.86 U	2.78 U
4,6-Dinitro-2-methylphenol	534-52-1	NS	2.86 U	2.78 U
4-Bromophenyl phenyl ether	101-55-3	NS	2.86 U	2.78 U
4-Chloro-3-methylphenol	59-50-7	NS	2.86 U	2.78 U
4-Chloroaniline	106-47-8	5*	2.86 U	2.78 U
4-Chlorophenyl phenyl ether	7005-72-3	NS	2.86 U	2.78 U
4-Nitroaniline	100-01-6	5*	2.86 U	2.78 U
4-Nitrophenol	100-02-7	NS	5.71 U	5.56 U
Acenaphthene	83-32-9	20	0.0800	0.0556 U
Acenaphthylene	208-96-8	NS	0.206	0.0556 U
Acetophenone	98-86-2	NS	2.86 U	2.78 U
Aniline	62-53-3	5*	2.86 U	2.78 U
Anthracene	120-12-7	50	0.229	0.100
Atrazine	1912-24-9	7.5	0.571 U	0.556 U
Benzaldehyde	100-52-7	NS	2.86 U	2.78 U
Benzidine	92-87-5	5*	5.71 U	5.56 U
Benzoic acid	65-85-0	NS	28.6 U	27.8 U
Benzyl alcohol	100-51-6	NS	2.86 U	2.78 U
Benzo(a)anthracene	56-55-3	0.002	0.823	0.300
Benzo(a)pyrene	50-32-8	ND	0.971	0.344
Benzo(b)fluoranthene	205-99-2	0.002	1.04	0.289
Benzo(ghi)perylene	191-24-2	NS	0.434	0.222
Benzo(k)fluoranthene	207-08-9	0.002	0.823	0.267
Benzyl butyl phthalate	85-68-7	50	2.86 U	2.78 U
Bis(2-chloroethoxy)methane	111-91-1	5*	2.86 U	2.78 U
Bis(2-chloroethyl)ether	111-44-4	1.0	1.14 U	1.11 U
Bis(2-ethylhexyl)phthalate	117-81-7	5	0.571 U	0.556 U
Bis(2-chloroisopropyl)ether	108-60-1	5*	2.86 U	2.78 U
Caprolactam	105-60-2	NS	2.86 U	2.78 U
Carbazole	86-74-8	NS	2.86 U	2.78 U
Chrysene	218-01-9	0.002	0.846	0.311
Dibenzo(a,h)anthracene	53-70-3	NS	0.171	0.0889
Dibenzofuran	132-64-9	NS	2.86 U	2.78 U
Diethyl phthalate	84-66-2	50	2.86 U	2.78 U
Dimethyl phthalate	131-11-3	50	2.86 U	2.78 U
Di-n-butyl phthalate	84-74-2	50	2.86 U	2.78 U
Di-n-octyl phthalate	117-84-0	50	2.86 U	2.78 U
Fluoranthene	206-44-0	50	1.69	0.611
Fluorene	86-73-7	50	0.0914	0.0556 U
Hexachlorobenzene	118-74-1	0.04	0.0229 U	0.0222 U
Hexachlorobutadiene	87-68-3	0.5	0.571 U	0.556 U
Hexachlorocyclopentadiene	77-47-4	5*	5.71 U	5.56 U
Hexachloroethane	67-72-1	5*	0.571 U	0.556 U
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	0.400	0.200
Isophorone	78-59-1	50	2.86 U	2.78 U
Naphthalene	91-20-3	10	0.0914	0.122
Nitrobenzene	98-95-3	0.4	0.286 U	0.278 U
N-nitrosodi-n-propylamine	621-64-7	NS	2.86 U	2.78 U
N-Nitrosodiphenylamine	86-30-6	50	2.86 U	2.78 U
N-Nitrosodimethylamine	62-75-9	NS	0.571 U	0.556 U
Pentachlorophenol	87-86-5	1	0.286 U	0.278 U
Phenanthrene	85-01-8	50	0.903	0.289
Phenol	108-95-2	1	2.86 U	2.78 U
Pyrene	129-00-0	50	1.49	0.744
Pyridine	110-86-1	50	2.86 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 4
Groundwater Analytical Data Summary
Metals (Total and Dissolved)

Client Sample ID: Sampling Date: Laboratory ID:	CAS No.	NYS AWQS & GVs June 1998 (1)	MW001			MW002		
			5/10/2019 19E0591-31			5/10/2019 19E0591-32		
			Total	Dissolved		Total	Dissolved	
Method: 6010 D - Metals - (µg/L)								
Aluminum	7429-90-5	NS	7,020		55.6 U	899	75.5	
Antimony	7440-36-0	3	1.11 U		11.1 U	1.13	11.1	U
Arsenic	7440-38-2	25	28.3		11.1 U	1.32	11.1	U
Barium	7440-39-3	1,000	336		128	83.2	68.5	
Beryllium	7440-41-7	3	0.333 U		3.33 U	0.333 U	3.33	U
Cadmium	7440-43-9	5	1.30		5.56 U	0.556 U	5.56	U
Calcium	7440-70-2	NS	203,000		157,000	172,000	162,000	
Chromium	7440-47-3	50	50.2		5.56 U	5.56 U	5.56	U
Cobalt	7440-48-4	NS	15.3		4.44 U	4.44 U	4.44	U
Copper	7440-50-8	200	125		22.2 U	22.2 U	22.2	U
Iron	7439-89-6	300	56,800		278 U	3,940	278	U
Lead	7439-92-1	25	711		5.56 U	16.6	5.56	U
Magnesium	7439-92-1	35,000	39,700		27,700	265,000	248,000	
Manganese	7439-96-5	300	2,770		1.520	409	393	
Nickel	7440-02-0	100	37.1		11.1 U	11.1 U	11.1	U
Potassium	7440-09-7	NS	21,800		15,600	95,600	88,400	
Selenium	7782-49-2	10	20.5		11.1 U	84.5	58.9	
Silver	7440-22-4	50	5.56 U		5.56 U	5.56 U	5.56	U
Sodium	7440-23-5	20,000	525,000		453,000	3,030,000	3,250,000	
Thallium	7440-23-5	0.5	1.11 U		11.1 U	1.11 U	11.1	U
Vanadium	7440-62-2	NS	50.9		11.1 U	11.1 U	11.1	U
Zinc	7440-66-6	2,000	408		27.8 U	59.0	30.2	
Method: 7473 - Mercury - (µg/L)								
Mercury	7439-97-6	0.7	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(W) - 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(W)

Table 5
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)	MW001 5/10/2019 19E0591-31	MW002 5/10/2019 19E0591-32
Method: 8081 B - Pesticides - (µg/L)				
4,4'-DDD	72-54-8	0.3	0.00432 U	0.00432 U
4,4'-DDE	72-55-9	0.2	0.00432 U	0.00432 U
4,4'-DDT	50-29-3	0.2	0.00432 U	0.00432 U
Aldrin	309-00-2	ND	0.00432 U	0.00432 U
Alpha-BHC	319-84-6	0.01	0.00432 U	0.00432 U
Alpha-Chlordane	5103-71-9	NS	0.00432 U	0.00432 U
Beta-BHC	319-85-7	0.04	0.00432 U	0.00432 U
Delta-BHC	319-86-8	0.04	0.00432 U	0.00432 U
Dieldrin	60-57-1	0.004	0.00432 U	0.00432 U
Endosulfan I	959-98-8	NS	0.00432 U	0.00432 U
Endosulfan II	33213-65-9	NS	0.00432 U	0.00432 U
Endosulfan sulfate	1031-07-8	NS	0.00432 U	0.00432 U
Endrin	72-20-8	ND	0.00432 U	0.00432 U
Endrin aldehyde	7421-93-4	5*	0.0108 U	0.0108 U
Endrin ketone	53494-70-5	5*	0.0108 U	0.0108 U
gamma-BHC (Lindane)	58-89-9	0.05	0.00432 U	0.00432 U
gamma-Chlordane	5566-34-7	NS	0.0108 U	0.0108 U
Heptachlor	76-44-8	0.04	0.00432 U	0.00432 U
Heptachlor epoxide	1024-57-3	0.03	0.00432 U	0.00432 U
Methoxychlor	72-43-5	35	0.00432 U	0.00432 U
Toxaphene	8001-35-2	0.06	0.108 U	0.108 U
total Chlordane	57-74-9	0.05	0.216 U	0.216 U
Method: 8082 A - PCBs - (µg/L)				
Aroclor 1016	12674-11-2	0.09	0.0541 U	0.0541 U
Aroclor 1221	11104-28-2	0.09	0.0541 U	0.0541 U
Aroclor 1232	11141-16-5	0.09	0.0541 U	0.0541 U
Aroclor 1242	53469-21-9	0.09	0.0541 U	0.0541 U
Aroclor 1248	12672-29-6	0.09	0.0541 U	0.0541 U
Aroclor 1254	11097-69-1	0.09	0.0541 U	0.0541 U
Aroclor 1260	11096-82-5	0.09	0.0541 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(W.S) - 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(W.S)

Table 6
Soil-Vapor Sample Analytical Results - Volatile Organic Compounds

Client Sample ID: Laboratory ID: Sampling Date:	Cas No.	USEPA VISL ¹	SV001 19E0578-01 5/10/2019
Volatile Organic Compounds by TO-15 ug/m3			
1,1,1,2-Tetrachloroethane	630-20-6	12.6	1.1 U
1,1,1-Trichloroethane	71-55-6	170,000	0.88 U
1,1,2,2-Tetrachloroethane	79-34-5	1.6	1.1 U
1,1,2-Trichlorotrifluoroethane	76-13-1	NS	1.2 U
1,1,2-Trichloroethane	79-00-5	5.8	0.88 U
1,1-Dichloroethane	75-34-3	58	0.65 U
1,1-Dichloroethene	75-35-4	7,000	0.16 U
1,2,4-Trichlorobenzene	120-82-1	70	1.2 U
1,2,4-Trimethylbenzene	95-63-6	2,100	12
1,2-Dibromoethane	106-93-4	0.16	1.2 U
1,2-Dichlorobenzene	95-50-1	7,000	0.97 U
1,2-Dichloroethane	107-06-2	3.6	0.78 U
1,2-Dichloropropane	78-87-5	25	0.74 U
1,2-Dichlorotetrafluoroethane	76-14-2	NS	1.1 U
1,3,5-Trimethylbenzene	108-67-8	2,090	3.2
1,3-Butadiene	106-99-0	3.1	1.1 U
1,3-Dichlorobenzene	541-73-1	NS	0.97 U
1,3-Dichloropropane	142-28-9	NS	0.74 U
1,4-Dichlorobenzene	106-46-7	8.5	0.97 U
1,4-Dioxane	123-91-1	19	1.2 U
2-Butanone	78-93-3	174,000	12
2-Hexanone	591-78-6	1,040	1.3 U
3-Chloropropene	107-05-1	16	2.5 U
4-Methyl-2-pentanone	108-10-1	104,000	18
Acetone	67-64-1	1,100,000	96
Acrylonitrile	107-13-1	1.38	0.35 U
Benzene	71-43-2	12	3.5
Benzyl Chloride	100-44-7	1.9	0.83 U
Bromodichloromethane	75-27-4	2.5	1.1 U
Bromoform	75-25-2	85	1.7 U
Bromomethane	74-83-9	170	0.62 U
Carbon disulfide	75-15-0	24,000	0.50 U
Carbon tetrachloride	56-23-5	16	0.71
Chlorobenzene	108-90-7	1,700	0.74 U
Chloroethane	75-00-3	350,000	0.42 U
Chloroform	67-66-3	4.1	0.78 U
Chloromethane	74-87-3	3,100	2.0
cis-1,2-Dichloroethylene	156-59-2	NS	0.25
cis-1,3-Dichloropropene	10061-01-5	23	0.73 U
Cyclohexane	110-82-7	210,000	2.5
Dibromochloromethane	124-48-1	NS	1.4 U
Dichlorodifluoromethane	75-71-8	3,500	4.7
Ethyl acetate	141-78-6	2,430	20
Ethylbenzene	100-41-4	37	7.6
Hexachlorobutadiene	87-68-3	4.3	1.7 U
Isopropyl Alcohol	67-63-0	7,000	36
Methyl methacrylate	80-62-6	24,300	0.66 U
Methyl Tert Butyl Ether	1634-04-4	360	0.58 U
Methylene chloride	75-09-2	3,400	22
n-Heptane	142-82-5	14,000	19
n-Hexane	110-54-3	24,000	6.8
o-Xylene	95-47-6	3,500	9.3
p-&m-Xylenes	179601-23-1	3,500	30
p-Ethyltoluene	622-96-8	NS	9.7
Propylene	115-07-1	104,000	3.4
Styrene	100-42-5	35,000	2.1
Tetrachloroethene	127-18-4	360	5.6
Tetrahydrofuran	109-99-9	70,000	0.95 U
Toluene	108-88-3	170,000	120
trans-1,2-Dichloroethylene	156-60-5	NS	0.64 U
trans-1,3-Dichloropropene	10061-02-6	23	0.73 U
Trichloroethene	79-01-6	16	0.43
Trichlorofluoromethane	75-69-4	NS	2.0
Vinyl acetate	108-05-4	6,950	0.57 U
Vinyl bromide	593-60-2	2.92	0.70 U
Vinyl chloride	75-01-4	5.6	0.10 U

Notes:

All Concentrations are ug/m3

1 - USEPA Vapor Intrusion Screening Levels, <https://www.epa.gov/vaporintrusion/vapor-intrusion-screening-level-calculator>

D - result is from an analysis that required a dilution

U - Indicates that the analyte was not detected above the laboratory MDL



APPENDIX A GEOPHYSICAL SURVEY



GEOPHYSICAL INVESTIGATION REPORT

SITE LOCATION:

**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 399 Exterior Street, Bronx, New York.

1.0 INTRODUCTION

On May 9th, 2019 Delta Geophysics personnel performed a limited geophysical investigation at 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 399 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.

Reliance or use by any such third party without explicit authorization in the report does not make said third party a third party beneficiary to Delta's contract with the Client. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.



APPENDIX B SOIL BORING LOGS

PROJECT #:	LST1802.A
SITE ADDRESS:	399 Exterior Street, Bronx, New York
BORING ID:	SB001
WELL ID:	
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 6610
SAMPLING METHOD:	Macrocore



BORING DEPTH (FT):	10	CORE LENGTH (FT):	N/A
BORING DIAMETER (IN):	2	WELL DIAMETER (IN):	2
DATE STARTED:	05/09/2019	DATE FINISHED:	05/09/2019
TIME STARTED:	07:00	TIME FINISHED:	07:15
LATITUDE:	N/A	LONGITUDE:	N/A
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						0	
1						1	
1						1	
2						2	
2						2	
3			3			3	
3						3	
4						4	
4				Brown, fine to coarse SAND, some Gravel and Brick, dry and no odor.	0	4	
5						5	
5						5	
6						6	
6						6	
7						7	
7						7	
8			4			8	
8						8	
9						9	
9				Brown, fine to coarse SAND, some Gravel and little brick, wet and no odor.	0	9	
10						10	
10						10	

PROJECT #:	LST1802.A
SITE ADDRESS:	399 Exterior Street, Bronx, New York
BORING ID:	SB002
WELL ID:	
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 6610
SAMPLING METHOD:	Macrocore



BORING DEPTH (FT):	15	CORE LENGTH (FT):	N/A
BORING DIAMETER (IN):	2	WELL DIAMETER (IN):	2
DATE STARTED:	05/09/2019	DATE FINISHED:	05/09/2019
TIME STARTED:	07:30	TIME FINISHED:	07:45
LATITUDE:	N/A	LONGITUDE:	N/A
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						0	
1						1	
2						2	
3			4			3	
4				Brown, fine to coarse SAND, some Gravel, Brick and Asphalt; dry and no odor.	0	4	
5						5	
6						6	
7			3			7	
8			5			8	
9				Brown, fine to coarse SAND, some Gravel, Brick and Asphalt; wet and no odor.	0	9	
10						10	
11						11	
12			3	Dark Brown, medium to coarse SAND, some Wood and Gravel, little broken shells; wet and organic odor.	0	12	
13						13	
14						14	
15						15	

PROJECT #:	LST1802.A
SITE ADDRESS:	399 Exterior Street, Bronx, New York
BORING ID:	SB003
WELL ID:	MW001
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 6610
SAMPLING METHOD:	Macrocore



BORING DEPTH (FT):	15	CORE LENGTH (FT):	N/A
BORING DIAMETER (IN):	2	WELL DIAMETER (IN):	2
DATE STARTED:	05/09/2019	DATE FINISHED:	05/09/2019
TIME STARTED:	08:00	TIME FINISHED:	08:15
LATITUDE:	N/A	LONGITUDE:	N/A
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						0	
1				Brown, fine to medium SAND, little brick, dry and no odor.	0	1	
2			3			2	
3			5			3	
4				Light Brown, fine SAND, little medium sand; dry and no odor.	0	4	
5						5	
6						6	
7			4			7	
8			5	Brown, fine to medium SAND, some Brick and Gravel; dry and no odor.	0	8	
9						9	
10						10	▼
11						11	
12			3	Grey to Green, fine SAND and SILT; wet and no odor.	0	12	
13						13	
14						14	
15				Grey, CLAY; wet and no odor.	0	15	

PROJECT #:	LST1802.A
SITE ADDRESS:	399 Exterior Street, Bronx, New York
BORING ID:	SB004
WELL ID:	MW002
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 6610
SAMPLING METHOD:	Macrocore



BORING DEPTH (FT):	15	CORE LENGTH (FT):	N/A
BORING DIAMETER (IN):	2	WELL DIAMETER (IN):	2
DATE STARTED:	05/09/2019	DATE FINISHED:	05/09/2019
TIME STARTED:	10:00	TIME FINISHED:	10:30
LATITUDE:	N/A	LONGITUDE:	N/A
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						0	
1						1	
2						2	
3			3	Brown, fine to medium SAND, little asphalt, concrete and brick; dry and no odor.	0	3	
4			5			4	
5						5	
6						6	
7			3	Light Brown to Orange Brown, fine SAND, little brick and gravel; moist and no odor.	0	7	
8						8	
9						9	
10						10	
11						11	
12			1	Grey, fine SAND, little gravel and silt, trace wood; wet and no odor.	0	12	
13			5			13	
14						14	
15						15	

PROJECT #:	LST1802.A
SITE ADDRESS:	399 Exterior Street, Bronx, New York
BORING ID:	SB005
WELL ID:	
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 6610
SAMPLING METHOD:	Macrocore



BORING DEPTH (FT):	10	CORE LENGTH (FT):	N/A
BORING DIAMETER (IN):	2	WELL DIAMETER (IN):	2
DATE STARTED:	05/09/2019	DATE FINISHED:	05/09/2019
TIME STARTED:	09:30	TIME FINISHED:	09:45
LATITUDE:	N/A	LONGITUDE:	N/A
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						0	
1						1	
2			4	Dark Brown to Grey, fine to medium SAND, some Gravel and Brick, little asphalt; dry and no odor.	0	2	
3						3	
4						4	
5				Light Brown, fine SAND; dry and no odor.	0	5	
6			4	Dark Brown, fine to medium SAND and GRAVEL; dry and no odor.	0	6	
7						7	
8				Light Brown to Brown, fine SAND and SILT; wet and no odor.	0	8	▼
9						9	
10						10	
11						11	
12			2	Dark Brown, medium to coarse SAND, some Gravel; wet and no odor.	0	12	
13						13	
14						14	
15						15	

PROJECT #:	LST1802.A
SITE ADDRESS:	399 Exterior Street, Bronx, New York
BORING ID:	SB006
WELL ID:	
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 6610
SAMPLING METHOD:	Macrocore



BORING DEPTH (FT):	15	CORE LENGTH (FT):	N/A
BORING DIAMETER (IN):	2	WELL DIAMETER (IN):	2
DATE STARTED:	05/09/2019	DATE FINISHED:	05/09/2019
TIME STARTED:	09:00	TIME FINISHED:	09:15
LATITUDE:	N/A	LONGITUDE:	N/A
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						0	
1				Brown, fine to medium SAND, some Gravel, little brick; dry and no odor.	0	1	
2						2	
3			3			3	
4			5	Light Brown, fine SAND; dry and no odor.	0	4	
5						5	
6						6	
7						7	
8			4	Brown, fine to medium SAND, some Gravel and Brick; moist no odor.	0	8	
9						9	
10						10	
11						11	
12			3	Light Brown to Brown, medium to coarse SAND; wet and no odor.	0	12	
13			5			13	
14				Dark Brown, fine SAND, some Silt; wet and no odor.	0	14	
15						15	

PROJECT #:	LST1802.A
SITE ADDRESS:	399 Exterior Street, Bronx, New York
BORING ID:	SB011
WELL ID:	
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 6610
SAMPLING METHOD:	Macrocore



BORING DEPTH (FT):	16	CORE LENGTH (FT):	N/A
BORING DIAMETER (IN):	2	WELL DIAMETER (IN):	2
DATE STARTED:	06/06/2019	DATE FINISHED:	06/06/2019
TIME STARTED:	08:00	TIME FINISHED:	08:30
LATITUDE:	N/A	LONGITUDE:	N/A
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						0	
1				Brown, fine to medium SAND, little brick and demarcation, dry and no odor.	0	1	
2						2	
3			3			3	
4				Light Brown, fine SAND, little medium sand; dry and no odor.	0	4	
5						5	
6				Brown, fine to medium SAND, some Brick and Gravel; dry and no odor.	0	6	
7			3			7	
8			5			8	▼
9						9	
10						10	
11						11	
12			3	Grey to Brown, fine to medium SAND, some broken shells; wet and no odor.	0	12	
13						13	
14						14	
15						15	
16			0			16	
17						17	
18						18	

PROJECT #:	LST1802.A
SITE ADDRESS:	399 Exterior Street, Bronx, New York
BORING ID:	SB013
WELL ID:	
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 6610
SAMPLING METHOD:	Macrocore

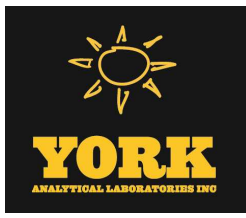


BORING DEPTH (FT):	15	CORE LENGTH (FT):	N/A
BORING DIAMETER (IN):	2	WELL DIAMETER (IN):	2
DATE STARTED:	06/06/2019	DATE FINISHED:	06/06/2019
TIME STARTED:	10:00	TIME FINISHED:	10:30
LATITUDE:	N/A	LONGITUDE:	N/A
PROJECT MANAGER:	Dan Haug	LOGGED BY:	Janelle Cooley

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						0	
1						1	
2						2	
3			3			3	
4				Brown to Dark Grey, fine to coarse SAND, some Gravel, Brick and Broken shells; dry and no odor.	0	4	
5						5	
6						6	
7						7	
8			3			8	
9						9	
10				Brown to Dark Grey, fine to coarse SAND, some Gravel, Brick and Broken shells; wet and no odor.	0	10	
11			2			11	
12						12	



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
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STRATFORD, CT 06615
(203) 325-1371



132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
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:



Benjamin Gulizia
Laboratory Director

Date: 05/20/2019





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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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-CC V, TO-LC S-H	ug/m ³	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/m ³	1.2	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
100-41-4	* Ethyl Benzene	7.6		ug/m ³	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/m ³	1.7	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
67-63-0	* Isopropanol	36		ug/m ³	0.79	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
80-62-6	* Methyl Methacrylate	ND		ug/m ³	0.66	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
1634-04-4	* Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.58	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
75-09-2	* Methylene chloride	22		ug/m ³	1.1	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
142-82-5	* n-Heptane	19		ug/m ³	0.66	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
110-54-3	* n-Hexane	6.8		ug/m ³	0.57	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
95-47-6	* o-Xylene	9.3		ug/m ³	0.70	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
179601-23-1	* p- & m- Xylenes	30		ug/m ³	1.4	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
622-96-8	* p-Ethyltoluene	9.7		ug/m ³	0.79	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
115-07-1	* Propylene	3.4	TO-CC V, TO-LC S-H	ug/m ³	0.28	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
100-42-5	* Styrene	2.1		ug/m ³	0.68	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
127-18-4	* Tetrachloroethylene	5.6		ug/m ³	0.27	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.95	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
108-88-3	* Toluene	120		ug/m ³	0.61	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
156-60-5	* trans-1,2-Dichloroethylene	ND		ug/m ³	0.64	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
10061-02-6	* trans-1,3-Dichloropropylene	ND		ug/m ³	0.73	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
79-01-6	* Trichloroethylene	0.43		ug/m ³	0.22	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
75-69-4	* Trichlorofluoromethane (Freon 11)	2.0		ug/m ³	0.90	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
108-05-4	* Vinyl acetate	ND		ug/m ³	0.57	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
593-60-2	* Vinyl bromide	ND		ug/m ³	0.70	1.607	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 19:46	AS
75-01-4	* Vinyl Chloride	ND		ug/m ³	0.10	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

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

Sample Information

Client Sample ID: SV002

York Sample ID: 19E0578-02

<u>York Project (SDG) No.</u> 19E0578	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> May 10, 2019 12:00 am	<u>Date Received</u> 05/14/2019
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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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	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/m ³	2.1	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
541-73-1	* 1,3-Dichlorobenzene	ND		ug/m ³	1.9	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	1.4	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
106-46-7	* 1,4-Dichlorobenzene	ND		ug/m ³	1.9	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
123-91-1	* 1,4-Dioxane	ND		ug/m ³	2.2	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
78-93-3	* 2-Butanone	120		ug/m ³	0.92	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
591-78-6	* 2-Hexanone	16		ug/m ³	2.5	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
107-05-1	* 3-Chloropropene	ND		ug/m ³	4.9	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
108-10-1	* 4-Methyl-2-pentanone	ND		ug/m ³	1.3	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
67-64-1	* Acetone	67		ug/m ³	1.5	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
107-13-1	* Acrylonitrile	ND		ug/m ³	0.68	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
71-43-2	* Benzene	5.3		ug/m ³	0.99	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
100-44-7	* Benzyl chloride	ND		ug/m ³	1.6	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
75-27-4	* Bromodichloromethane	ND		ug/m ³	2.1	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
75-25-2	* Bromoform	ND		ug/m ³	3.2	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
74-83-9	* Bromomethane	ND		ug/m ³	1.2	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
75-15-0	* Carbon disulfide	4.1		ug/m ³	0.97	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
56-23-5	* Carbon tetrachloride	ND		ug/m ³	0.49	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
108-90-7	* Chlorobenzene	ND		ug/m ³	1.4	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
75-00-3	* Chloroethane	ND		ug/m ³	0.82	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
67-66-3	* Chloroform	ND		ug/m ³	1.5	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
74-87-3	* Chloromethane	ND		ug/m ³	0.64	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
156-59-2	* cis-1,2-Dichloroethylene	ND		ug/m ³	0.31	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
10061-01-5	* cis-1,3-Dichloropropylene	ND		ug/m ³	1.4	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
110-82-7	* Cyclohexane	1.5		ug/m ³	1.1	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
124-48-1	* Dibromochloromethane	ND		ug/m ³	2.7	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
75-71-8	* Dichlorodifluoromethane	2.6	TO-CC V, TO-LC S-H	ug/m ³	1.5	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
141-78-6	* Ethyl acetate	ND		ug/m ³	2.2	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
100-41-4	* Ethyl Benzene	ND		ug/m ³	1.4	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
87-68-3	* Hexachlorobutadiene	ND		ug/m ³	3.3	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
67-63-0	* Isopropanol	4.5		ug/m ³	1.5	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
80-62-6	* Methyl Methacrylate	ND		ug/m ³	1.3	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
1634-04-4	* Methyl tert-butyl ether (MTBE)	ND		ug/m ³	1.1	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
75-09-2	* Methylene chloride	ND		ug/m ³	2.2	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
142-82-5	* n-Heptane	1.5		ug/m ³	1.3	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
110-54-3	* n-Hexane	1.8		ug/m ³	1.1	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
95-47-6	* o-Xylene	ND		ug/m ³	1.4	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
179601-23-1	* p- & m- Xylenes	ND		ug/m ³	2.7	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
622-96-8	* p-Ethyltoluene	1.7		ug/m ³	1.5	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
115-07-1	* Propylene	11	TO-CC V, TO-LC S-H	ug/m ³	0.54	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
100-42-5	* Styrene	ND		ug/m ³	1.3	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
127-18-4	* Tetrachloroethylene	12		ug/m ³	0.53	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
109-99-9	* Tetrahydrofuran	5.8		ug/m ³	1.8	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
108-88-3	* Toluene	4.5		ug/m ³	1.2	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
156-60-5	* trans-1,2-Dichloroethylene	ND		ug/m ³	1.2	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
10061-02-6	* trans-1,3-Dichloropropylene	ND		ug/m ³	1.4	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
79-01-6	* Trichloroethylene	ND		ug/m ³	0.42	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
75-69-4	* Trichlorofluoromethane (Freon 11)	2.3		ug/m ³	1.7	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
108-05-4	* Vinyl acetate	ND		ug/m ³	1.1	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
593-60-2	* Vinyl bromide	ND		ug/m ³	1.4	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
75-01-4	* Vinyl Chloride	ND		ug/m ³	0.20	3.112	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/17/2019 09:00	05/17/2019 21:53	AS
Surrogate Recoveries		Result	Acceptance Range							
460-00-4	Surrogate: SURRE: 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
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Batch BE90934 - EPA TO15 PREP

Blank (BE90934-BLK1)

Prepared & Analyzed: 05/17/2019

1,1,1,2-Tetrachloroethane	ND	0.69	ug/m ³								
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
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Batch BE90934 - EPA TO15 PREP

Blank (BE90934-BLK1)

Prepared & Analyzed: 05/17/2019

n-Heptane	ND	0.41	ug/m ³								
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	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			
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/m ³		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	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Flag
		Limit		Level	Result	Limits	Limit				

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/m ³	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
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.69</i>		<i>ppbv</i>	<i>10.0</i>			<i>96.9</i>	<i>70-130</i>	





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.

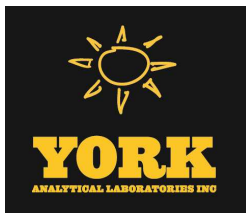
2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

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.



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

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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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
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

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
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:



Benjamin Gulizia
Laboratory Director

Date: 05/30/2019





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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 08:10	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.261	0.522	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 08:10	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
120-83-2	2,4-Dichlorophenol	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
105-67-9	2,4-Dimethylphenol	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
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.522	1.04	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
121-14-2	2,4-Dinitrotoluene	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
606-20-2	2,6-Dinitrotoluene	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
91-58-7	2-Chloronaphthalene	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
95-57-8	2-Chlorophenol	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
91-57-6	2-Methylnaphthalene	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
95-48-7	2-Methylphenol	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
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.522	1.04	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
88-75-5	2-Nitrophenol	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
65794-96-9	3- & 4-Methylphenols	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
91-94-1	3,3-Dichlorobenzidine	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
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.522	1.04	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
106-47-8	4-Chloroaniline	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
7005-72-3	4-Chlorophenyl phenyl 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
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.522	1.04	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.522	1.04	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
83-32-9	Acenaphthene	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
208-96-8	Acenaphthylene	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
98-86-2	Acetophenone	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
62-53-3	Aniline	ND		mg/kg dry	1.04	2.09	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
120-12-7	Anthracene	0.459	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
1912-24-9	Atrazine	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
100-52-7	Benzaldehyde	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
92-87-5	Benzidine	ND		mg/kg dry	1.04	2.09	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
65-85-0	Benzoic acid	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



Sample Information

Client Sample ID: SB001 (0-2)

York Sample ID: 19E0591-01

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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:15 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:03	KH
98-95-3	Nitrobenzene	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
62-75-9	N-Nitrosodimethylamine	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
621-64-7	N-nitroso-di-n-propylamine	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
86-30-6	N-Nitrosodiphenylamine	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
87-86-5	Pentachlorophenol	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
85-01-8	Phenanthrene	1.58		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
108-95-2	Phenol	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
129-00-0	Pyrene	2.40		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
110-86-1	Pyridine	ND		mg/kg dry	1.04	2.09	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 21:49	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 21:49	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 21:49	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 21:49	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 21:49	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 08:00	05/22/2019 21:49	CM



Sample Information

Client Sample ID: SB001 (0-2)

York Sample ID: 19E0591-01

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:15 am	<u>Date Received</u> 05/13/2019
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-85-7	beta-BHC	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 21:49	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 21:49	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 21:49	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 21:49	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	05/20/2019 08:00	05/22/2019 21:49	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 21:49	CM
72-20-8	Endrin	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 21:49	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 21:49	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 21:49	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 08:00	05/22/2019 21:49	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 08:00	05/22/2019 21:49	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 21:49	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 21:49	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 21:49	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.205	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	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: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/23/2019 00:13	SR
11104-28-2	Aroclor 1221	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



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

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	8540		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
7439-96-5	Manganese	300		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
7440-02-0	Nickel	17.6		mg/kg dry	1.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:13	KML
7440-09-7	Potassium	1590		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
7782-49-2	Selenium	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
7440-22-4	Silver	ND		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
7440-23-5	Sodium	314		mg/kg dry	63.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:13	KML
7440-28-0	Thallium	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
7440-62-2	Vanadium	23.7		mg/kg dry	1.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:13	KML
7440-66-6	Zinc	370		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

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 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 09:03	05/22/2019 12:16	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	79.4		%	0.100	1	SM 2540G Certifications: CTDOH	05/16/2019 22:16	05/17/2019 15:13	JTV

Sample Information

Client Sample ID: SB001 (2-4)

York Sample ID: 19E0591-02

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

Client Sample ID: SB001 (2-4)

York Sample ID: 19E0591-02

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:25 am	<u>Date Received</u> 05/13/2019
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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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 08:10	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 08:10	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0966	0.193	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0966	0.193	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH



Sample Information

Client Sample ID: SB001 (2-4)

York Sample ID: 19E0591-02

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:25 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0966	0.193	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0966	0.193	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0966	0.193	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
83-32-9	Acenaphthene	0.111		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
208-96-8	Acenaphthylene	0.226		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
62-53-3	Aniline	ND		mg/kg dry	0.193	0.387	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
120-12-7	Anthracene	0.334		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
92-87-5	Benzidine	ND		mg/kg dry	0.193	0.387	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
56-55-3	Benzo(a)anthracene	1.11		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
50-32-8	Benzo(a)pyrene	1.16		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
205-99-2	Benzo(b)fluoranthene	0.949		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
191-24-2	Benzo(g,h,i)perylene	0.798		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
207-08-9	Benzo(k)fluoranthene	0.902		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0966	0.193	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
86-74-8	Carbazole	0.105		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
218-01-9	Chrysene	0.991		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
53-70-3	Dibenzo(a,h)anthracene	0.212		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
132-64-9	Dibenzofuran	0.0564	J	mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
206-44-0	Fluoranthene	2.13		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
86-73-7	Fluorene	0.105		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
193-39-5	Indeno(1,2,3-cd)pyrene	0.890		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
91-20-3	Naphthalene	0.0571	J	mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
85-01-8	Phenanthrene	1.28		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
108-95-2	Phenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
129-00-0	Pyrene	1.66		mg/kg dry	0.0484	0.0966	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 17:32	KH
110-86-1	Pyridine	ND		mg/kg dry	0.193	0.387	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:04	CM
72-55-9	4,4'-DDE	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
50-29-3	4,4'-DDT	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
309-00-2	Aldrin	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
319-84-6	alpha-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
5103-71-9	alpha-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
319-85-7	beta-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



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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:25 am	<u>Date Received</u> 05/13/2019
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	279		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
7440-02-0	Nickel	16.3		mg/kg dry	1.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:15	KML
7440-09-7	Potassium	2510		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
7782-49-2	Selenium	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
7440-22-4	Silver	ND		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
7440-23-5	Sodium	432		mg/kg dry	58.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:15	KML
7440-28-0	Thallium	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
7440-62-2	Vanadium	23.9		mg/kg dry	1.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:15	KML
7440-66-6	Zinc	639		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

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 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 09:03	05/22/2019 12:25	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	85.8		%	0.100	1	SM 2540G Certifications: CTDOH	05/16/2019 22:16	05/17/2019 15:13	JTV

Sample Information

Client Sample ID: SB001 (4-6)

York Sample ID: 19E0591-03

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

Client Sample ID: SB001 (4-6)

York Sample ID: 19E0591-03

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:20 am	<u>Date Received</u> 05/13/2019
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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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 08:10	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 08:10	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.511	1.02	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.511	1.02	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH



Sample Information

Client Sample ID: SB001 (4-6)

York Sample ID: 19E0591-03

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:20 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.511	1.02	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.511	1.02	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.511	1.02	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
208-96-8	Acenaphthylene	0.919		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
62-53-3	Aniline	ND		mg/kg dry	1.02	2.05	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
120-12-7	Anthracene	0.698		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
92-87-5	Benzidine	ND		mg/kg dry	1.02	2.05	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
56-55-3	Benzo(a)anthracene	3.12		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
50-32-8	Benzo(a)pyrene	3.51		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
205-99-2	Benzo(b)fluoranthene	3.20		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
191-24-2	Benzo(g,h,i)perylene	2.33		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
207-08-9	Benzo(k)fluoranthene	2.68		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.511	1.02	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
86-74-8	Carbazole	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
218-01-9	Chrysene	2.58		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
53-70-3	Dibenzo(a,h)anthracene	0.727		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
206-44-0	Fluoranthene	4.70		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
86-73-7	Fluorene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
193-39-5	Indeno(1,2,3-cd)pyrene	2.81		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
78-59-1	Isophorone	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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
98-95-3	Nitrobenzene	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
85-01-8	Phenanthrene	2.01		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
108-95-2	Phenol	ND		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
129-00-0	Pyrene	3.45		mg/kg dry	0.256	0.511	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 18:01	KH
110-86-1	Pyridine	ND		mg/kg dry	1.02	2.05	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:07	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:07	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:07	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:07	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:07	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 08:00	05/21/2019 20:07	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:07	CM



Sample Information

Client Sample ID: SB001 (4-6)

York Sample ID: 19E0591-03

York Project (SDG) No.

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Matrix

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:07	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:07	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:07	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	05/20/2019 08:00	05/21/2019 20:07	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:07	CM
72-20-8	Endrin	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:07	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:07	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:07	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:07	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 08:00	05/21/2019 20:07	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:07	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:07	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00203	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:07	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.203	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	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: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 11:05	SR
11104-28-2	Aroclor 1221	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
11141-16-5	Aroclor 1232	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



Sample Information

Client Sample ID: SB001 (4-6)

York Sample ID: 19E0591-03

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:20 am	<u>Date Received</u> 05/13/2019
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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							

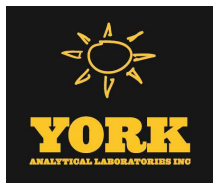
Metals, Target Analyte

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

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	487		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
7440-02-0	Nickel	18.8		mg/kg dry	1.23	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:17	KML
7440-09-7	Potassium	2230		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
7782-49-2	Selenium	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
7440-22-4	Silver	ND		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
7440-23-5	Sodium	234		mg/kg dry	61.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:17	KML
7440-28-0	Thallium	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
7440-62-2	Vanadium	25.7		mg/kg dry	1.23	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:17	KML
7440-66-6	Zinc	410		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

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 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 09:03	05/22/2019 12:34	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	81.1		%	0.100	1	SM 2540G Certifications: CTDOH	05/16/2019 22:16	05/17/2019 15:13	JTV

Sample Information

Client Sample ID: SB002 (4-6)

York Sample ID: 19E0591-04

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

Client Sample ID: SB002 (4-6)

York Sample ID: 19E0591-04

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:30 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
534-52-1	4,6-Dinitro-2-methylphenol	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
101-55-3	4-Bromophenyl phenyl ether	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
59-50-7	4-Chloro-3-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
106-47-8	4-Chloroaniline	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
7005-72-3	4-Chlorophenyl phenyl ether	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
100-01-6	4-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
100-02-7	4-Nitrophenol	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
83-32-9	Acenaphthene	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
208-96-8	Acenaphthylene	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
98-86-2	Acetophenone	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
62-53-3	Aniline	ND		mg/kg dry	5.34	10.7	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
120-12-7	Anthracene	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
1912-24-9	Atrazine	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
100-52-7	Benzaldehyde	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
92-87-5	Benzidine	ND		mg/kg dry	5.34	10.7	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
56-55-3	Benzo(a)anthracene	3.13		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
50-32-8	Benzo(a)pyrene	3.00		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
205-99-2	Benzo(b)fluoranthene	2.30	J	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
191-24-2	Benzo(g,h,i)perylene	1.94	J	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
207-08-9	Benzo(k)fluoranthene	2.30	J	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
65-85-0	Benzoic acid	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
100-51-6	Benzyl alcohol	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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:30 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
111-91-1	Bis(2-chloroethoxy)methane	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
111-44-4	Bis(2-chloroethyl)ether	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
108-60-1	Bis(2-chloroisopropyl)ether	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
117-81-7	Bis(2-ethylhexyl)phthalate	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
105-60-2	Caprolactam	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
86-74-8	Carbazole	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
218-01-9	Chrysene	2.68		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
53-70-3	Dibenzo(a,h)anthracene	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
132-64-9	Dibenzofuran	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
84-66-2	Diethyl phthalate	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
131-11-3	Dimethyl phthalate	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
84-74-2	Di-n-butyl phthalate	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
117-84-0	Di-n-octyl phthalate	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
206-44-0	Fluoranthene	5.15		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
86-73-7	Fluorene	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
118-74-1	Hexachlorobenzene	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
87-68-3	Hexachlorobutadiene	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
77-47-4	Hexachlorocyclopentadiene	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
67-72-1	Hexachloroethane	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
193-39-5	Indeno(1,2,3-cd)pyrene	2.15	J	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
78-59-1	Isophorone	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
91-20-3	Naphthalene	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



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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	05/22/2019 15:36	KH
62-75-9	N-Nitrosodimethylamine	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
621-64-7	N-nitroso-di-n-propylamine	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
86-30-6	N-Nitrosodiphenylamine	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
87-86-5	Pentachlorophenol	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
85-01-8	Phenanthrene	2.68		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
108-95-2	Phenol	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
129-00-0	Pyrene	4.79		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
110-86-1	Pyridine	ND		mg/kg dry	5.34	10.7	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:10	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:19	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:19	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:19	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:19	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:19	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 08:00	05/22/2019 22:19	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:19	CM



Sample Information

Client Sample ID: SB002 (4-6)

York Sample ID: 19E0591-04

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:30 am	<u>Date Received</u> 05/13/2019
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-86-8	delta-BHC	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:19	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:19	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:19	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	05/20/2019 08:00	05/22/2019 22:19	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:19	CM
72-20-8	Endrin	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:19	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:19	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:19	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:19	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 08:00	05/22/2019 22:19	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:19	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:19	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/22/2019 22:19	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	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: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 08:00	05/23/2019 00:40	SR
11104-28-2	Aroclor 1221	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
11141-16-5	Aroclor 1232	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



Sample Information

Client Sample ID: SB002 (4-6)

York Sample ID: 19E0591-04

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:30 am	<u>Date Received</u> 05/13/2019
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	7800		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
7439-96-5	Manganese	266		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
7440-02-0	Nickel	18.9		mg/kg dry	1.29	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:20	KML
7440-09-7	Potassium	1500		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
7782-49-2	Selenium	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
7440-22-4	Silver	ND		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
7440-23-5	Sodium	292		mg/kg dry	64.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:20	KML
7440-28-0	Thallium	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
7440-62-2	Vanadium	25.7		mg/kg dry	1.29	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:20	KML
7440-66-6	Zinc	446		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

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 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 09:03	05/22/2019 13:33	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	77.5		%	0.100	1	SM 2540G Certifications: CTDOH	05/16/2019 22:16	05/17/2019 15:13	JTV

Sample Information

Client Sample ID: SB002 (6-8)

York Sample ID: 19E0591-05

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:50 am	<u>Date Received</u> 05/13/2019
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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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.102	0.203	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.102	0.203	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH



Sample Information

Client Sample ID: SB002 (6-8)

York Sample ID: 19E0591-05

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:50 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.102	0.203	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.102	0.203	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.102	0.203	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
62-53-3	Aniline	ND		mg/kg dry	0.204	0.408	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
120-12-7	Anthracene	0.0903	J	mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
92-87-5	Benzidine	ND		mg/kg dry	0.204	0.408	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
56-55-3	Benzo(a)anthracene	0.277		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
50-32-8	Benzo(a)pyrene	0.279		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
205-99-2	Benzo(b)fluoranthene	0.200		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
191-24-2	Benzo(g,h,i)perylene	0.168		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
207-08-9	Benzo(k)fluoranthene	0.177		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH



Sample Information

Client Sample ID: SB002 (6-8)

York Sample ID: 19E0591-05

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:50 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.102	0.203	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
218-01-9	Chrysene	0.252		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
206-44-0	Fluoranthene	0.466		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
86-73-7	Fluorene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
193-39-5	Indeno(1,2,3-cd)pyrene	0.196		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH



Sample Information

Client Sample ID: SB002 (6-8)

York Sample ID: 19E0591-05

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:50 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
85-01-8	Phenanthrene	0.317		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
108-95-2	Phenol	ND		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
129-00-0	Pyrene	0.471		mg/kg dry	0.0510	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 20:56	KH
110-86-1	Pyridine	ND		mg/kg dry	0.204	0.408	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 08:00	05/21/2019 20:22	CM
72-55-9	4,4'-DDE	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
50-29-3	4,4'-DDT	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
309-00-2	Aldrin	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
319-84-6	alpha-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
5103-71-9	alpha-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
319-85-7	beta-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



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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:50 am	<u>Date Received</u> 05/13/2019
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	277		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
7440-02-0	Nickel	21.4		mg/kg dry	1.22	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:26	KML
7440-09-7	Potassium	1720		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
7782-49-2	Selenium	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
7440-22-4	Silver	ND		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
7440-23-5	Sodium	525		mg/kg dry	61.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:26	KML
7440-28-0	Thallium	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
7440-62-2	Vanadium	51.5		mg/kg dry	1.22	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:26	KML
7440-66-6	Zinc	94.8		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

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 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 09:03	05/22/2019 14:14	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	81.7		%	0.100	1	SM 2540G Certifications: CTDOH	05/16/2019 22:16	05/17/2019 15:13	JTV

Sample Information

Client Sample ID: SB002 (0-2)

York Sample ID: 19E0591-06

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

Client Sample ID: SB002 (0-2)

York Sample ID: 19E0591-06

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:45 am	<u>Date Received</u> 05/13/2019
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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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.813	1.62	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.813	1.62	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.813	1.62	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.813	1.62	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.813	1.62	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
62-53-3	Aniline	ND		mg/kg dry	1.63	3.25	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
120-12-7	Anthracene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
92-87-5	Benzidine	ND		mg/kg dry	1.63	3.25	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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
85-68-7	Benzyl butyl phthalate	9.01		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
117-81-7	Bis(2-ethylhexyl)phthalate	0.669	J	mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.813	1.62	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
86-74-8	Carbazole	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
218-01-9	Chrysene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
84-74-2	Di-n-butyl phthalate	0.533	J	mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
206-44-0	Fluoranthene	0.676	J	mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
86-73-7	Fluorene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
78-59-1	Isophorone	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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
98-95-3	Nitrobenzene	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
85-01-8	Phenanthrene	0.598	J	mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
108-95-2	Phenol	ND		mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
129-00-0	Pyrene	0.669	J	mg/kg dry	0.407	0.813	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:26	KH
110-86-1	Pyridine	ND		mg/kg dry	1.63	3.25	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:49	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:49	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:49	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:49	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:49	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	05/23/2019 00:49	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:49	CM



Sample Information

Client Sample ID: SB002 (0-2)

York Sample ID: 19E0591-06

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:45 am	<u>Date Received</u> 05/13/2019
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-86-8	delta-BHC	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:49	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:49	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:49	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	05/20/2019 14:33	05/23/2019 00:49	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:49	CM
72-20-8	Endrin	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:49	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:49	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:49	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:49	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	05/23/2019 00:49	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:49	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:49	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:49	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	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: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 00:53	SR
11104-28-2	Aroclor 1221	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
11141-16-5	Aroclor 1232	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



Sample Information

Client Sample ID: SB002 (0-2)

York Sample ID: 19E0591-06

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:45 am	<u>Date Received</u> 05/13/2019
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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							

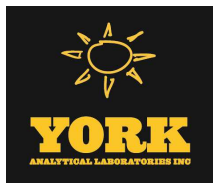
Metals, Target Analyte

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

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	176		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
7440-02-0	Nickel	10.7		mg/kg dry	1.31	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:33	KML
7440-09-7	Potassium	1350		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
7782-49-2	Selenium	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
7440-22-4	Silver	ND		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
7440-23-5	Sodium	478		mg/kg dry	65.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:33	KML
7440-28-0	Thallium	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
7440-62-2	Vanadium	20.6		mg/kg dry	1.31	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:33	KML
7440-66-6	Zinc	96.1		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

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 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 09:04	05/22/2019 16:34	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	76.2		%	0.100	1	SM 2540G Certifications: CTDOH	05/16/2019 22:16	05/17/2019 15:13	JTV

Sample Information

Client Sample ID: SB003 (6-8)

York Sample ID: 19E0591-07

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

Client Sample ID: SB003 (6-8)

York Sample ID: 19E0591-07

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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 7:35 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0925	0.185	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
106-47-8	4-Chloroaniline	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
7005-72-3	4-Chlorophenyl phenyl ether	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
100-01-6	4-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
100-02-7	4-Nitrophenol	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
83-32-9	Acenaphthene	0.0761	J	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
208-96-8	Acenaphthylene	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
98-86-2	Acetophenone	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
62-53-3	Aniline	ND		mg/kg dry	0.185	0.370	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
120-12-7	Anthracene	0.191		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
1912-24-9	Atrazine	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
100-52-7	Benzaldehyde	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
92-87-5	Benzidine	ND		mg/kg dry	0.185	0.370	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
56-55-3	Benzo(a)anthracene	0.370		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
50-32-8	Benzo(a)pyrene	0.352		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
205-99-2	Benzo(b)fluoranthene	0.240		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
191-24-2	Benzo(g,h,i)perylene	0.157		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
207-08-9	Benzo(k)fluoranthene	0.230		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
65-85-0	Benzoic acid	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
100-51-6	Benzyl alcohol	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
85-68-7	Benzyl butyl phthalate	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
111-91-1	Bis(2-chloroethoxy)methane	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
111-44-4	Bis(2-chloroethyl)ether	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
108-60-1	Bis(2-chloroisopropyl)ether	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
117-81-7	Bis(2-ethylhexyl)phthalate	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
105-60-2	Caprolactam	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
86-74-8	Carbazole	0.0480	J	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
218-01-9	Chrysene	0.313		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
53-70-3	Dibenzo(a,h)anthracene	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
132-64-9	Dibenzofuran	0.0466	J	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
84-66-2	Diethyl phthalate	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
131-11-3	Dimethyl phthalate	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
84-74-2	Di-n-butyl phthalate	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
117-84-0	Di-n-octyl phthalate	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
206-44-0	Fluoranthene	0.838		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
86-73-7	Fluorene	0.0710	J	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
118-74-1	Hexachlorobenzene	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
87-68-3	Hexachlorobutadiene	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
77-47-4	Hexachlorocyclopentadiene	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
67-72-1	Hexachloroethane	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
193-39-5	Indeno(1,2,3-cd)pyrene	0.204		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
78-59-1	Isophorone	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
91-20-3	Naphthalene	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



Sample Information

Client Sample ID: SB003 (6-8)

York Sample ID: 19E0591-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
62-75-9	N-Nitrosodimethylamine	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
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0463	0.0925	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 19:25	KH
86-30-6	N-Nitrosodiphenylamine	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
87-86-5	Pentachlorophenol	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
85-01-8	Phenanthrene	0.733		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
108-95-2	Phenol	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
129-00-0	Pyrene	0.725		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
110-86-1	Pyridine	ND		mg/kg dry	0.185	0.370	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 19:49	CM
72-55-9	4,4'-DDE	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
50-29-3	4,4'-DDT	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
309-00-2	Aldrin	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
319-84-6	alpha-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
5103-71-9	alpha-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
319-85-7	beta-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



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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 7:35 am	<u>Date Received</u> 05/13/2019
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	457		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
7440-02-0	Nickel	22.5		mg/kg dry	1.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 17:54	KML
7440-09-7	Potassium	3390		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
7782-49-2	Selenium	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
7440-22-4	Silver	ND		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
7440-23-5	Sodium	306		mg/kg dry	56.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 17:54	KML
7440-28-0	Thallium	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
7440-62-2	Vanadium	30.8		mg/kg dry	1.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 17:54	KML
7440-66-6	Zinc	57.6		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

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 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 09:04	05/22/2019 15:32	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	89.0		%	0.100	1	SM 2540G Certifications: CTDOH	05/17/2019 18:08	05/18/2019 15:54	TJM

Sample Information

Client Sample ID: SB003 (10-12)

York Sample ID: 19E0591-08

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

Client Sample ID: SB003 (10-12)

York Sample ID: 19E0591-08

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 7:45 am	<u>Date Received</u> 05/13/2019
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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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
62-53-3	Aniline	ND		mg/kg dry	0.212	0.425	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
92-87-5	Benzidine	ND		mg/kg dry	0.212	0.425	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications: NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
86-73-7	Fluorene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH



Sample Information

Client Sample ID: SB003 (10-12)

York Sample ID: 19E0591-08

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 7:45 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
108-95-2	Phenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 21:56	KH
110-86-1	Pyridine	ND		mg/kg dry	0.212	0.425	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:04	CM
72-55-9	4,4'-DDE	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
50-29-3	4,4'-DDT	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
309-00-2	Aldrin	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
319-84-6	alpha-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
5103-71-9	alpha-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
319-85-7	beta-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



Sample Information

Client Sample ID: SB003 (10-12)

York Sample ID: 19E0591-08

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 7:45 am	<u>Date Received</u> 05/13/2019
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 7:45 am	<u>Date Received</u> 05/13/2019
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	108		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
7440-02-0	Nickel	16.7		mg/kg dry	1.28	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:00	KML
7440-09-7	Potassium	1660		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
7782-49-2	Selenium	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
7440-22-4	Silver	ND		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
7440-23-5	Sodium	311		mg/kg dry	64.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:00	KML
7440-28-0	Thallium	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
7440-62-2	Vanadium	23.1		mg/kg dry	1.28	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:00	KML
7440-66-6	Zinc	30.9		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

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

Sample Information

Client Sample ID: SB003 (0-2)

York Sample ID: 19E0591-09

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

Client Sample ID: SB003 (0-2)

York Sample ID: 19E0591-09

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 7:40 am	<u>Date Received</u> 05/13/2019
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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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.693	1.38	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.693	1.38	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH



Sample Information

Client Sample ID: SB003 (0-2)

York Sample ID: 19E0591-09

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 7:40 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.693	1.38	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.693	1.38	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.693	1.38	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
208-96-8	Acenaphthylene	1.05		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
62-53-3	Aniline	ND		mg/kg dry	1.39	2.78	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
120-12-7	Anthracene	1.63		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
92-87-5	Benzidine	ND		mg/kg dry	1.39	2.78	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
56-55-3	Benzo(a)anthracene	7.80		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
50-32-8	Benzo(a)pyrene	7.08		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
205-99-2	Benzo(b)fluoranthene	6.38		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
191-24-2	Benzo(g,h,i)perylene	4.17		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
207-08-9	Benzo(k)fluoranthene	5.00		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 11:16	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.693	1.38	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
86-74-8	Carbazole	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
218-01-9	Chrysene	7.17		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
206-44-0	Fluoranthene	15.2		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
86-73-7	Fluorene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
78-59-1	Isophorone	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
85-01-8	Phenanthrene	6.05		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
108-95-2	Phenol	ND		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
129-00-0	Pyrene	13.7		mg/kg dry	0.347	0.693	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:26	KH
110-86-1	Pyridine	ND		mg/kg dry	1.39	2.78	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:04	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:04	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:04	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:04	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:04	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	05/23/2019 01:04	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:04	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:04	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:04	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	05/20/2019 14:33	05/23/2019 01:04	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:04	CM
72-20-8	Endrin	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:04	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:04	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:04	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:04	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	05/23/2019 01:04	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:04	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:04	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:04	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	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: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:07	SR
11104-28-2	Aroclor 1221	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
11141-16-5	Aroclor 1232	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



Sample Information

Client Sample ID: SB003 (0-2)

York Sample ID: 19E0591-09

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 7:40 am	<u>Date Received</u> 05/13/2019
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	6660		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
7439-96-5	Manganese	289		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
7440-02-0	Nickel	25.4		mg/kg dry	1.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:03	KML
7440-09-7	Potassium	1350		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
7782-49-2	Selenium	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
7440-22-4	Silver	ND		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
7440-23-5	Sodium	814		mg/kg dry	55.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:03	KML
7440-28-0	Thallium	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
7440-62-2	Vanadium	27.8		mg/kg dry	1.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:03	KML
7440-66-6	Zinc	402		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

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 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 09:04	05/22/2019 16:51	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	89.7		%	0.100	1	SM 2540G Certifications: CTDOH	05/16/2019 22:16	05/17/2019 15:13	JTV

Sample Information

Client Sample ID: SB004 (0-2)

York Sample ID: 19E0591-10

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

Client Sample ID: SB004 (0-2)

York Sample ID: 19E0591-10

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:30 am	<u>Date Received</u> 05/13/2019
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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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	1.11	2.22	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	1.11	2.22	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH



Sample Information

Client Sample ID: SB004 (0-2)

York Sample ID: 19E0591-10

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:30 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	1.11	2.22	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	1.11	2.22	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	1.11	2.22	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
83-32-9	Acenaphthene	2.32		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
62-53-3	Aniline	ND		mg/kg dry	2.22	4.44	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
120-12-7	Anthracene	4.80		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
92-87-5	Benzidine	ND		mg/kg dry	2.22	4.44	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
56-55-3	Benzo(a)anthracene	8.92		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
50-32-8	Benzo(a)pyrene	7.83		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
205-99-2	Benzo(b)fluoranthene	6.63		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
191-24-2	Benzo(g,h,i)perylene	4.07		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
207-08-9	Benzo(k)fluoranthene	5.71		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH



Sample Information

Client Sample ID: SB004 (0-2)

York Sample ID: 19E0591-10

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:30 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
117-81-7	Bis(2-ethylhexyl)phthalate	0.896	J	mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
105-60-2	Caprolactam	ND		mg/kg dry	1.11	2.22	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
86-74-8	Carbazole	2.07		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
218-01-9	Chrysene	7.64		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
53-70-3	Dibenzo(a,h)anthracene	1.07	J	mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
132-64-9	Dibenzofuran	1.42		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
206-44-0	Fluoranthene	20.8		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
86-73-7	Fluorene	2.08		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
193-39-5	Indeno(1,2,3-cd)pyrene	5.53		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
78-59-1	Isophorone	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
91-20-3	Naphthalene	1.16		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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
98-95-3	Nitrobenzene	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
85-01-8	Phenanthrene	19.0		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
108-95-2	Phenol	ND		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
129-00-0	Pyrene	17.5		mg/kg dry	0.556	1.11	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 22:56	KH
110-86-1	Pyridine	ND		mg/kg dry	2.22	4.44	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:19	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:19	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:19	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:19	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:19	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	05/23/2019 01:19	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:19	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:19	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:19	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	05/20/2019 14:33	05/23/2019 01:19	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:19	CM
72-20-8	Endrin	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:19	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:19	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:19	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:19	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	05/23/2019 01:19	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:19	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:19	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00220	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:19	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.220	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	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: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:20	SR
11104-28-2	Aroclor 1221	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
11141-16-5	Aroclor 1232	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



Sample Information

Client Sample ID: SB004 (0-2)

York Sample ID: 19E0591-10

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:30 am	<u>Date Received</u> 05/13/2019
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	13200		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
7439-96-5	Manganese	303		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
7440-02-0	Nickel	74.1		mg/kg dry	1.34	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:05	KML
7440-09-7	Potassium	794		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
7782-49-2	Selenium	ND		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
7440-22-4	Silver	ND		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
7440-23-5	Sodium	432		mg/kg dry	66.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:05	KML
7440-28-0	Thallium	ND		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
7440-62-2	Vanadium	51.2		mg/kg dry	1.34	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:05	KML
7440-66-6	Zinc	966		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

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 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 09:04	05/22/2019 17:00	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	74.9		%	0.100	1	SM 2540G Certifications: CTDOH	05/16/2019 22:16	05/17/2019 15:13	JTV

Sample Information

Client Sample ID: SB004 (4-6)

York Sample ID: 19E0591-11

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:35 am	<u>Date Received</u> 05/13/2019
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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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.108	0.216	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.108	0.216	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH



Sample Information

Client Sample ID: SB004 (4-6)

York Sample ID: 19E0591-11

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:35 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.108	0.216	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.108	0.216	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.108	0.216	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
83-32-9	Acenaphthene	0.136		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
208-96-8	Acenaphthylene	0.0589	J	mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
62-53-3	Aniline	ND		mg/kg dry	0.217	0.434	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
120-12-7	Anthracene	0.560		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
92-87-5	Benzidine	ND		mg/kg dry	0.217	0.434	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
56-55-3	Benzo(a)anthracene	1.97		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
50-32-8	Benzo(a)pyrene	2.10		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
205-99-2	Benzo(b)fluoranthene	1.62		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
191-24-2	Benzo(g,h,i)perylene	1.22		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
207-08-9	Benzo(k)fluoranthene	1.28		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH



Sample Information

Client Sample ID: SB004 (4-6)

York Sample ID: 19E0591-11

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:35 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.108	0.216	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
86-74-8	Carbazole	0.103	J	mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
218-01-9	Chrysene	1.82		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
53-70-3	Dibenzo(a,h)anthracene	0.288		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
132-64-9	Dibenzofuran	0.0762	J	mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
206-44-0	Fluoranthene	3.62		mg/kg dry	0.136	0.271	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 11:44	KH
86-73-7	Fluorene	0.129		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
193-39-5	Indeno(1,2,3-cd)pyrene	1.49		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
85-01-8	Phenanthrene	1.99		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
108-95-2	Phenol	ND		mg/kg dry	0.0543	0.108	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:26	KH
129-00-0	Pyrene	3.45		mg/kg dry	0.136	0.271	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 11:44	KH
110-86-1	Pyridine	ND		mg/kg dry	0.217	0.434	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:34	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:34	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:34	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:34	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:34	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	05/23/2019 01:34	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:34	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:34	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:34	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	05/20/2019 14:33	05/23/2019 01:34	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:34	CM
72-20-8	Endrin	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:34	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:34	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:34	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:34	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	05/23/2019 01:34	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:34	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:34	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:34	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.214	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	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: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:34	SR
11104-28-2	Aroclor 1221	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
11141-16-5	Aroclor 1232	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



Sample Information

Client Sample ID: SB004 (4-6)

York Sample ID: 19E0591-11

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:35 am	<u>Date Received</u> 05/13/2019
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	3760		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
7439-96-5	Manganese	242		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
7440-02-0	Nickel	15.3		mg/kg dry	1.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:07	KML
7440-09-7	Potassium	1350		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
7782-49-2	Selenium	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
7440-22-4	Silver	ND		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
7440-23-5	Sodium	421		mg/kg dry	65.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:07	KML
7440-28-0	Thallium	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
7440-62-2	Vanadium	21.3		mg/kg dry	1.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:07	KML
7440-66-6	Zinc	218		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

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 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 09:04	05/22/2019 17:09	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	76.8		%	0.100	1	SM 2540G Certifications: CTDOH	05/16/2019 22:16	05/17/2019 15:13	JTV

Sample Information

Client Sample ID: SB004 (2-4)

York Sample ID: 19E0591-12

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:40 am	<u>Date Received</u> 05/13/2019
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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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0921	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
91-57-6	2-Methylnaphthalene	0.121		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0921	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH



Sample Information

Client Sample ID: SB004 (2-4)

York Sample ID: 19E0591-12

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:40 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0921	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0921	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0921	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
83-32-9	Acenaphthene	0.315		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
208-96-8	Acenaphthylene	0.0935		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
62-53-3	Aniline	ND		mg/kg dry	0.184	0.369	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
120-12-7	Anthracene	1.06		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
92-87-5	Benzidine	ND		mg/kg dry	0.184	0.369	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
56-55-3	Benzo(a)anthracene	2.56		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
50-32-8	Benzo(a)pyrene	2.53		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
205-99-2	Benzo(b)fluoranthene	2.03		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
191-24-2	Benzo(g,h,i)perylene	1.40		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
207-08-9	Benzo(k)fluoranthene	1.69		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH



Sample Information

Client Sample ID: SB004 (2-4)

York Sample ID: 19E0591-12

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:40 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0921	0.184	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
86-74-8	Carbazole	0.253		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
218-01-9	Chrysene	2.35		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
132-64-9	Dibenzofuran	0.218		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
206-44-0	Fluoranthene	5.35		mg/kg dry	0.231	0.460	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 12:13	KH
86-73-7	Fluorene	0.356		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
91-20-3	Naphthalene	0.166		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH



Sample Information

Client Sample ID: SB004 (2-4)

York Sample ID: 19E0591-12

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:40 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
85-01-8	Phenanthrene	3.74		mg/kg dry	0.231	0.460	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 12:13	KH
108-95-2	Phenol	ND		mg/kg dry	0.0461	0.0921	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/22/2019 23:56	KH
129-00-0	Pyrene	4.90		mg/kg dry	0.231	0.460	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 12:13	KH
110-86-1	Pyridine	ND		mg/kg dry	0.184	0.369	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 01:49	CM
72-55-9	4,4'-DDE	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
50-29-3	4,4'-DDT	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
309-00-2	Aldrin	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
319-84-6	alpha-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
5103-71-9	alpha-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
319-85-7	beta-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



Sample Information

Client Sample ID: SB004 (2-4)

York Sample ID: 19E0591-12

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:40 am	<u>Date Received</u> 05/13/2019
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:40 am	<u>Date Received</u> 05/13/2019
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	9420		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
7439-96-5	Manganese	436		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
7440-02-0	Nickel	31.7		mg/kg dry	1.11	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:14	KML
7440-09-7	Potassium	3360		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
7782-49-2	Selenium	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
7440-22-4	Silver	ND		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
7440-23-5	Sodium	432		mg/kg dry	55.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:14	KML
7440-28-0	Thallium	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
7440-62-2	Vanadium	41.8		mg/kg dry	1.11	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:14	KML
7440-66-6	Zinc	462		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

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 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 09:04	05/22/2019 17:18	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	90.3		%	0.100	1	SM 2540G Certifications: CTDOH	05/16/2019 22:16	05/17/2019 15:13	JTV

Sample Information

Client Sample ID: SB005 (2-4)

York Sample ID: 19E0591-13

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:15 am	<u>Date Received</u> 05/13/2019
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Sample Information

Client Sample ID: SB005 (2-4)

York Sample ID: 19E0591-13

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:15 am	<u>Date Received</u> 05/13/2019
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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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.502	1.00	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.502	1.00	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.502	1.00	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.502	1.00	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
83-32-9	Acenaphthene	0.855		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
208-96-8	Acenaphthylene	0.313	J	mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
62-53-3	Aniline	ND		mg/kg dry	1.01	2.01	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
120-12-7	Anthracene	2.07		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
92-87-5	Benzidine	ND		mg/kg dry	1.01	2.01	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.502	1.00	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
86-74-8	Carbazole	1.33		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
218-01-9	Chrysene	5.75		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
53-70-3	Dibenzo(a,b)anthracene	0.782		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
132-64-9	Dibenzofuran	0.742		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
206-44-0	Fluoranthene	14.8		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
86-73-7	Fluorene	0.819		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
193-39-5	Indeno(1,2,3-cd)pyrene	3.33		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
78-59-1	Isophorone	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
91-20-3	Naphthalene	0.449	J	mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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
98-95-3	Nitrobenzene	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
85-01-8	Phenanthrene	12.1		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
108-95-2	Phenol	ND		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
129-00-0	Pyrene	12.1		mg/kg dry	0.252	0.502	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:26	KH
110-86-1	Pyridine	ND		mg/kg dry	1.01	2.01	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:04	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:04	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:04	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:04	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:04	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	05/23/2019 02:04	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:04	CM



Sample Information

Client Sample ID: SB005 (2-4)

York Sample ID: 19E0591-13

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:15 am	<u>Date Received</u> 05/13/2019
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-86-8	delta-BHC	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:04	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:04	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:04	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	05/20/2019 14:33	05/23/2019 02:04	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:04	CM
72-20-8	Endrin	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:04	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:04	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:04	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:04	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	05/23/2019 02:04	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:04	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:04	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00200	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:04	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.200	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	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: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:01	SR
11104-28-2	Aroclor 1221	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
11141-16-5	Aroclor 1232	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



Sample Information

Client Sample ID: SB005 (2-4)

York Sample ID: 19E0591-13

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:15 am	<u>Date Received</u> 05/13/2019
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:15 am	<u>Date Received</u> 05/13/2019
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	4720		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
7439-96-5	Manganese	338		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
7440-02-0	Nickel	105		mg/kg dry	1.22	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:16	KML
7440-09-7	Potassium	2180		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
7782-49-2	Selenium	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
7440-22-4	Silver	ND		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
7440-23-5	Sodium	485		mg/kg dry	60.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:16	KML
7440-28-0	Thallium	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
7440-62-2	Vanadium	26.7		mg/kg dry	1.22	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:16	KML
7440-66-6	Zinc	781		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

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 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 09:04	05/22/2019 17:27	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	82.2		%	0.100	1	SM 2540G Certifications: CTDOH	05/16/2019 22:16	05/17/2019 15:13	JTV

Sample Information

Client Sample ID: SB005 (0-2)

York Sample ID: 19E0591-14

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:23 am	<u>Date Received</u> 05/13/2019
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Sample Information

Client Sample ID: SB005 (0-2)

York Sample ID: 19E0591-14

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:23 am	<u>Date Received</u> 05/13/2019
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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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.520	1.04	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.520	1.04	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.520	1.04	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.520	1.04	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
62-53-3	Aniline	ND		mg/kg dry	1.04	2.08	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
120-12-7	Anthracene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
92-87-5	Benzidine	ND		mg/kg dry	1.04	2.08	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.520	1.04	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
86-74-8	Carbazole	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
218-01-9	Chrysene	0.295	J	mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
206-44-0	Fluoranthene	0.753		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
86-73-7	Fluorene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
78-59-1	Isophorone	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH



Sample Information

Client Sample ID: SB005 (0-2)

York Sample ID: 19E0591-14

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:23 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
85-01-8	Phenanthrene	0.441	J	mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
108-95-2	Phenol	ND		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
129-00-0	Pyrene	0.645		mg/kg dry	0.261	0.520	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 00:55	KH
110-86-1	Pyridine	ND		mg/kg dry	1.04	2.08	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:19	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:19	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:19	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:19	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:19	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	05/23/2019 02:19	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:19	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:19	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:19	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	05/20/2019 14:33	05/23/2019 02:19	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:19	CM
72-20-8	Endrin	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:19	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:19	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:19	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:19	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	05/23/2019 02:19	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:19	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:19	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:19	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	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: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:14	SR
11104-28-2	Aroclor 1221	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
11141-16-5	Aroclor 1232	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



Sample Information

Client Sample ID: SB005 (0-2)

York Sample ID: 19E0591-14

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:23 am	<u>Date Received</u> 05/13/2019
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:23 am	<u>Date Received</u> 05/13/2019
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	197		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
7440-02-0	Nickel	13.7		mg/kg dry	1.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:19	KML
7440-09-7	Potassium	1520		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
7782-49-2	Selenium	9.92		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
7440-22-4	Silver	ND		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
7440-23-5	Sodium	369		mg/kg dry	62.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:19	KML
7440-28-0	Thallium	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
7440-62-2	Vanadium	21.2		mg/kg dry	1.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:19	KML
7440-66-6	Zinc	210		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

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 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 09:04	05/22/2019 17:36	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	79.6		%	0.100	1	SM 2540G Certifications: CTDOH	05/16/2019 22:16	05/17/2019 15:13	JTV

Sample Information

Client Sample ID: SB005 (8-10)

York Sample ID: 19E0591-15

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:20 am	<u>Date Received</u> 05/13/2019
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Sample Information

Client Sample ID: SB005 (8-10)

York Sample ID: 19E0591-15

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:20 am	<u>Date Received</u> 05/13/2019
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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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.104	0.207	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.104	0.207	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH



Sample Information

Client Sample ID: SB005 (8-10)

York Sample ID: 19E0591-15

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:20 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.104	0.207	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.104	0.207	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.104	0.207	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
62-53-3	Aniline	ND		mg/kg dry	0.208	0.415	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
120-12-7	Anthracene	0.0647	J	mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
92-87-5	Benzidine	ND		mg/kg dry	0.208	0.415	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
56-55-3	Benzo(a)anthracene	0.245		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
50-32-8	Benzo(a)pyrene	0.323		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
205-99-2	Benzo(b)fluoranthene	0.240		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
191-24-2	Benzo(g,h,i)perylene	0.235		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
207-08-9	Benzo(k)fluoranthene	0.206		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH



Sample Information

Client Sample ID: SB005 (8-10)

York Sample ID: 19E0591-15

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:20 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.104	0.207	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
218-01-9	Chrysene	0.258		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
206-44-0	Fluoranthene	0.548		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
86-73-7	Fluorene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH



Sample Information

Client Sample ID: SB005 (8-10)

York Sample ID: 19E0591-15

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:20 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
85-01-8	Phenanthrene	0.356		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
108-95-2	Phenol	ND		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
129-00-0	Pyrene	0.494		mg/kg dry	0.0520	0.104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:25	KH
110-86-1	Pyridine	ND		mg/kg dry	0.208	0.415	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:43	CM
72-55-9	4,4'-DDE	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
50-29-3	4,4'-DDT	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
309-00-2	Aldrin	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
319-84-6	alpha-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
5103-71-9	alpha-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
319-85-7	beta-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



Sample Information

Client Sample ID: SB005 (8-10)

York Sample ID: 19E0591-15

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:20 am	<u>Date Received</u> 05/13/2019
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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:20 am	<u>Date Received</u> 05/13/2019
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:20 am	<u>Date Received</u> 05/13/2019
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	247		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
7440-02-0	Nickel	14.0		mg/kg dry	1.25	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:21	KML
7440-09-7	Potassium	876		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
7782-49-2	Selenium	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
7440-22-4	Silver	ND		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
7440-23-5	Sodium	697		mg/kg dry	62.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:21	KML
7440-28-0	Thallium	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
7440-62-2	Vanadium	16.2		mg/kg dry	1.25	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:21	KML
7440-66-6	Zinc	47.5		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

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 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 09:04	05/22/2019 17:45	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	79.9		%	0.100	1	SM 2540G Certifications: CTDOH	05/16/2019 22:16	05/17/2019 15:13	JTV

Sample Information

Client Sample ID: SB006 (0-2)

York Sample ID: 19E0591-16

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:00 am	<u>Date Received</u> 05/13/2019
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Sample Information

Client Sample ID: SB006 (0-2)

York Sample ID: 19E0591-16

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:00 am	<u>Date Received</u> 05/13/2019
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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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
208-96-8	Acenaphthylene	0.0744	J	mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
62-53-3	Aniline	ND		mg/kg dry	0.205	0.409	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
120-12-7	Anthracene	0.0727	J	mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
92-87-5	Benzidine	ND		mg/kg dry	0.205	0.409	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
56-55-3	Benzo(a)anthracene	0.311		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
50-32-8	Benzo(a)pyrene	0.364		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
205-99-2	Benzo(b)fluoranthene	0.311		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
191-24-2	Benzo(g,h,i)perylene	0.230		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
207-08-9	Benzo(k)fluoranthene	0.242		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
218-01-9	Chrysene	0.294		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
53-70-3	Dibenzo(a,b)anthracene	0.0597	J	mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
206-44-0	Fluoranthene	0.506		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
86-73-7	Fluorene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
85-01-8	Phenanthrene	0.203		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
108-95-2	Phenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
129-00-0	Pyrene	0.485		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 01:55	KH
110-86-1	Pyridine	ND		mg/kg dry	0.205	0.409	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 02:34	CM
72-55-9	4,4'-DDE	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
50-29-3	4,4'-DDT	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
309-00-2	Aldrin	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
319-84-6	alpha-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
5103-71-9	alpha-Chlordane	0.00983		mg/kg dry	0.00202	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	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

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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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:00 am	<u>Date Received</u> 05/13/2019
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:00 am	<u>Date Received</u> 05/13/2019
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	6770		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
7439-96-5	Manganese	175		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
7440-02-0	Nickel	14.7		mg/kg dry	1.23	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:23	KML
7440-09-7	Potassium	1070		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
7782-49-2	Selenium	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
7440-22-4	Silver	ND		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
7440-23-5	Sodium	646		mg/kg dry	61.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:23	KML
7440-28-0	Thallium	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
7440-62-2	Vanadium	23.2		mg/kg dry	1.23	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:23	KML
7440-66-6	Zinc	262		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

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 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 09:04	05/22/2019 17:58	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	81.3		%	0.100	1	SM 2540G Certifications: CTDOH	05/16/2019 22:16	05/17/2019 15:13	JTV

Sample Information

Client Sample ID: SB006 (4-6)

York Sample ID: 19E0591-17

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:05 am	<u>Date Received</u> 05/13/2019
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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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0851	0.170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0851	0.170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0851	0.170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0851	0.170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
62-53-3	Aniline	ND		mg/kg dry	0.170	0.341	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
92-87-5	Benzidine	ND		mg/kg dry	0.170	0.341	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0851	0.170	2	EPA 8270D Certifications: NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
86-73-7	Fluorene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/20/2019 14:37	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
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
108-95-2	Phenol	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0427	0.0851	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:25	KH
110-86-1	Pyridine	ND		mg/kg dry	0.170	0.341	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:58	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:58	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:58	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:58	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:58	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	05/22/2019 05:58	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:58	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:58	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:58	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	05/20/2019 14:33	05/22/2019 05:58	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:58	CM
72-20-8	Endrin	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:58	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:58	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:58	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:58	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	05/22/2019 05:58	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:58	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:58	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 05:58	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	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: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 11:30	SR
11104-28-2	Aroclor 1221	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
11141-16-5	Aroclor 1232	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



Sample Information

Client Sample ID: SB006 (4-6)

York Sample ID: 19E0591-17

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:05 am	<u>Date Received</u> 05/13/2019
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	39.6		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
7440-02-0	Nickel	3.27		mg/kg dry	1.02	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:25	KML
7440-09-7	Potassium	255		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
7782-49-2	Selenium	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
7440-22-4	Silver	ND		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
7440-23-5	Sodium	63.2		mg/kg dry	51.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:25	KML
7440-28-0	Thallium	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
7440-62-2	Vanadium	4.09		mg/kg dry	1.02	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:25	KML
7440-66-6	Zinc	26.4		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

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 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 09:04	05/22/2019 18:38	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	97.7		%	0.100	1	SM 2540G Certifications: CTDOH	05/16/2019 22:16	05/17/2019 15:13	JTV

Sample Information

Client Sample ID: SB006 (6-8)

York Sample ID: 19E0591-18

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

Client Sample ID: SB006 (6-8)

York Sample ID: 19E0591-18

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

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
534-52-1	4,6-Dinitro-2-methylphenol	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
101-55-3	4-Bromophenyl phenyl ether	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
59-50-7	4-Chloro-3-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
106-47-8	4-Chloroaniline	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
7005-72-3	4-Chlorophenyl phenyl ether	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
100-01-6	4-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
100-02-7	4-Nitrophenol	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
83-32-9	Acenaphthene	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
208-96-8	Acenaphthylene	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
98-86-2	Acetophenone	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
62-53-3	Aniline	ND		mg/kg dry	0.195	0.390	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
120-12-7	Anthracene	0.0848	J	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
1912-24-9	Atrazine	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
100-52-7	Benzaldehyde	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
92-87-5	Benzidine	ND		mg/kg dry	0.195	0.390	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
56-55-3	Benzo(a)anthracene	0.312		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
50-32-8	Benzo(a)pyrene	0.318		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
205-99-2	Benzo(b)fluoranthene	0.247		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
191-24-2	Benzo(g,h,i)perylene	0.170		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
207-08-9	Benzo(k)fluoranthene	0.203		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
65-85-0	Benzoic acid	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
100-51-6	Benzyl alcohol	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

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
111-91-1	Bis(2-chloroethoxy)methane	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
111-44-4	Bis(2-chloroethyl)ether	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
108-60-1	Bis(2-chloroisopropyl)ether	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
117-81-7	Bis(2-ethylhexyl)phthalate	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
105-60-2	Caprolactam	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
86-74-8	Carbazole	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
218-01-9	Chrysene	0.300		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
53-70-3	Dibenzo(a,h)anthracene	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
132-64-9	Dibenzofuran	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
84-66-2	Diethyl phthalate	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
131-11-3	Dimethyl phthalate	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
84-74-2	Di-n-butyl phthalate	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
117-84-0	Di-n-octyl phthalate	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
206-44-0	Fluoranthene	0.670		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
86-73-7	Fluorene	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
118-74-1	Hexachlorobenzene	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
87-68-3	Hexachlorobutadiene	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
77-47-4	Hexachlorocyclopentadiene	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
67-72-1	Hexachloroethane	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
193-39-5	Indeno(1,2,3-cd)pyrene	0.217		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
78-59-1	Isophorone	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
91-20-3	Naphthalene	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



Sample Information

Client Sample ID: SB006 (6-8)

York Sample ID: 19E0591-18

York Project (SDG) No.

Client Project ID

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 02:55	KH
62-75-9	N-Nitrosodimethylamine	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
621-64-7	N-nitroso-di-n-propylamine	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
86-30-6	N-Nitrosodiphenylamine	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
87-86-5	Pentachlorophenol	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
85-01-8	Phenanthrene	0.379		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
108-95-2	Phenol	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
129-00-0	Pyrene	0.651		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
110-86-1	Pyridine	ND		mg/kg dry	0.195	0.390	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:19	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:19	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:19	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:19	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:19	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	05/22/2019 20:19	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:19	CM



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Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-86-8	delta-BHC	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:19	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:19	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:19	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	05/20/2019 14:33	05/22/2019 20:19	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:19	CM
72-20-8	Endrin	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:19	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:19	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:19	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:19	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	05/20/2019 14:33	05/22/2019 20:19	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:19	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:19	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	05/22/2019 20:19	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:33	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: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/20/2019 14:33	05/23/2019 11:03	SR
11104-28-2	Aroclor 1221	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
11141-16-5	Aroclor 1232	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



Sample Information

Client Sample ID: SB006 (6-8)

York Sample ID: 19E0591-18

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 9:10 am	<u>Date Received</u> 05/13/2019
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Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	4410		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
7439-96-5	Manganese	123		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
7440-02-0	Nickel	16.7		mg/kg dry	1.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:28	KML
7440-09-7	Potassium	1200		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
7782-49-2	Selenium	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
7440-22-4	Silver	ND		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
7440-23-5	Sodium	192		mg/kg dry	58.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:28	KML
7440-28-0	Thallium	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
7440-62-2	Vanadium	19.0		mg/kg dry	1.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:28	KML
7440-66-6	Zinc	709		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

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 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 09:04	05/22/2019 18:47	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	85.1		%	0.100	1	SM 2540G Certifications: CTDOH	05/16/2019 22:16	05/17/2019 15:13	JTV

Sample Information

Client Sample ID: SB007 (8-10)

York Sample ID: 19E0591-19

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 12:50 pm	<u>Date Received</u> 05/13/2019
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Sample Information

Client Sample ID: SB007 (8-10)

York Sample ID: 19E0591-19

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 12:50 pm	<u>Date Received</u> 05/13/2019
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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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	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: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.112	0.224	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.112	0.224	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH



Sample Information

Client Sample ID: SB007 (8-10)

York Sample ID: 19E0591-19

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 12:50 pm	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.112	0.224	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.112	0.224	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.112	0.224	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
62-53-3	Aniline	ND		mg/kg dry	0.224	0.449	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
120-12-7	Anthracene	0.0797	J	mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
92-87-5	Benzidine	ND		mg/kg dry	0.224	0.449	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
56-55-3	Benzo(a)anthracene	0.259		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
50-32-8	Benzo(a)pyrene	0.232		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
205-99-2	Benzo(b)fluoranthene	0.158		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
191-24-2	Benzo(g,h,i)perylene	0.114		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
207-08-9	Benzo(k)fluoranthene	0.154		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH



Sample Information

Client Sample ID: SB007 (8-10)

York Sample ID: 19E0591-19

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 12:50 pm	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.112	0.224	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
218-01-9	Chrysene	0.228		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
206-44-0	Fluoranthene	0.501		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
86-73-7	Fluorene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
193-39-5	Indeno(1,2,3-cd)pyrene	0.142		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
85-01-8	Phenanthrene	0.365		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
108-95-2	Phenol	ND		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
129-00-0	Pyrene	0.561		mg/kg dry	0.0562	0.112	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:25	KH
110-86-1	Pyridine	ND		mg/kg dry	0.224	0.449	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	KML
7440-36-0	Antimony	ND		mg/kg dry	3.39	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	KML
7440-38-2	Arsenic	8.26		mg/kg dry	2.04	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	KML
7440-39-3	Barium	376		mg/kg dry	3.39	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	KML
7440-41-7	Beryllium	0.712		mg/kg dry	0.068	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	KML
7440-43-9	Cadmium	0.602		mg/kg dry	0.407	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	KML



Sample Information

Client Sample ID: SB007 (8-10)

York Sample ID: 19E0591-19

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 12:50 pm	<u>Date Received</u> 05/13/2019
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	9660		mg/kg dry	6.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	KML
7440-47-3	Chromium	11.7		mg/kg dry	0.679	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	KML
7440-48-4	Cobalt	12.0		mg/kg dry	0.543	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	KML
7440-50-8	Copper	170		mg/kg dry	2.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	KML
7439-89-6	Iron	10300		mg/kg dry	33.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	KML
7439-92-1	Lead	431		mg/kg dry	0.679	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	KML
7439-95-4	Magnesium	913		mg/kg dry	6.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	KML
7439-96-5	Manganese	329		mg/kg dry	0.679	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	KML
7440-02-0	Nickel	22.1		mg/kg dry	1.36	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	KML
7440-09-7	Potassium	1060		mg/kg dry	6.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	KML
7782-49-2	Selenium	ND		mg/kg dry	3.39	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	KML
7440-22-4	Silver	ND		mg/kg dry	0.679	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	KML
7440-23-5	Sodium	1950		mg/kg dry	67.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	KML
7440-28-0	Thallium	ND		mg/kg dry	3.39	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	KML
7440-62-2	Vanadium	26.3		mg/kg dry	1.36	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	KML
7440-66-6	Zinc	399		mg/kg dry	3.39	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:30	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	1.40		mg/kg dry	0.0407	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 09:04	05/22/2019 18:56	SY

Total Solids

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB007 (8-10)

York Sample ID: 19E0591-19

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 12:50 pm	<u>Date Received</u> 05/13/2019
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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 Certifications: CTDOH	05/16/2019 22:16	05/17/2019 15:13	JTV

Sample Information

Client Sample ID: SB007 (12-14)

York Sample ID: 19E0591-20

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 1:00 pm	<u>Date Received</u> 05/13/2019
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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 Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.144	0.287	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
120-82-1	1,2,4-Trichlorobenzene	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
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	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
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0720	0.144	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.144	0.287	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
95-95-4	2,4,5-Trichlorophenol	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
88-06-2	2,4,6-Trichlorophenol	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
120-83-2	2,4-Dichlorophenol	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
105-67-9	2,4-Dimethylphenol	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
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.144	0.287	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
121-14-2	2,4-Dinitrotoluene	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
606-20-2	2,6-Dinitrotoluene	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



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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
95-57-8	2-Chlorophenol	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
91-57-6	2-Methylnaphthalene	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
95-48-7	2-Methylphenol	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
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.144	0.287	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
88-75-5	2-Nitrophenol	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
65794-96-9	3- & 4-Methylphenols	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
91-94-1	3,3-Dichlorobenzidine	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
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.144	0.287	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.144	0.287	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
101-55-3	4-Bromophenyl phenyl ether	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
59-50-7	4-Chloro-3-methylphenol	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
106-47-8	4-Chloroaniline	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
7005-72-3	4-Chlorophenyl phenyl ether	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
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.144	0.287	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.144	0.287	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
83-32-9	Acenaphthene	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
208-96-8	Acenaphthylene	0.0849	J	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
98-86-2	Acetophenone	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
62-53-3	Aniline	ND		mg/kg dry	0.287	0.575	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
120-12-7	Anthracene	0.120	J	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
1912-24-9	Atrazine	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
100-52-7	Benzaldehyde	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



Sample Information

Client Sample ID: SB007 (12-14)

York Sample ID: 19E0591-20

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 1:00 pm	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
65-85-0	Benzoic acid	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
100-51-6	Benzyl alcohol	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
85-68-7	Benzyl butyl phthalate	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
111-91-1	Bis(2-chloroethoxy)methane	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
111-44-4	Bis(2-chloroethyl)ether	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
108-60-1	Bis(2-chloroisopropyl)ether	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
117-81-7	Bis(2-ethylhexyl)phthalate	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
105-60-2	Caprolactam	ND		mg/kg dry	0.144	0.287	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:37	05/23/2019 03:55	KH
86-74-8	Carbazole	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
218-01-9	Chrysene	0.319		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
53-70-3	Dibenzo(a,h)anthracene	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
132-64-9	Dibenzofuran	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
84-66-2	Diethyl phthalate	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
131-11-3	Dimethyl phthalate	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
84-74-2	Di-n-butyl phthalate	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
117-84-0	Di-n-octyl phthalate	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
206-44-0	Fluoranthene	0.555		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



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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 1:00 pm	<u>Date Received</u> 05/13/2019
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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 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML
7440-36-0	Antimony	ND		mg/kg dry	4.32	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML
7440-38-2	Arsenic	22.1		mg/kg dry	2.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML
7440-39-3	Barium	133		mg/kg dry	4.32	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML
7440-41-7	Beryllium	0.704		mg/kg dry	0.086	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML
7440-43-9	Cadmium	0.827		mg/kg dry	0.518	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML
7440-70-2	Calcium	3400		mg/kg dry	8.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML
7440-47-3	Chromium	59.6		mg/kg dry	0.864	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML
7440-48-4	Cobalt	16.1		mg/kg dry	0.691	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML
7440-50-8	Copper	158		mg/kg dry	3.45	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML
7439-89-6	Iron	39800		mg/kg dry	43.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML
7439-92-1	Lead	365		mg/kg dry	0.864	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML
7439-95-4	Magnesium	8990		mg/kg dry	8.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML
7439-96-5	Manganese	463		mg/kg dry	0.864	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML
7440-02-0	Nickel	39.5		mg/kg dry	1.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML
7440-09-7	Potassium	4460		mg/kg dry	8.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML
7782-49-2	Selenium	ND		mg/kg dry	4.32	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML
7440-22-4	Silver	ND		mg/kg dry	0.864	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML
7440-23-5	Sodium	2780		mg/kg dry	86.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML
7440-28-0	Thallium	ND		mg/kg dry	4.32	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML
7440-62-2	Vanadium	51.0		mg/kg dry	1.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML
7440-66-6	Zinc	280		mg/kg dry	4.32	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:32	KML



Sample Information

Client Sample ID: SB007 (12-14)

York Sample ID: 19E0591-20

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 1:00 pm	<u>Date Received</u> 05/13/2019
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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 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 09:04	05/22/2019 19:21	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	57.9		%	0.100	1	SM 2540G Certifications: CTDOH	05/16/2019 22:16	05/17/2019 15:13	JTV

Sample Information

Client Sample ID: SB007 (0-2)

York Sample ID: 19E0591-21

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 12:40 pm	<u>Date Received</u> 05/13/2019
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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 Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	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
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
58-90-2	2,3,4,6-Tetrachlorophenol	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
95-95-4	2,4,5-Trichlorophenol	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
88-06-2	2,4,6-Trichlorophenol	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

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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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0977	0.195	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0977	0.195	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0977	0.195	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0977	0.195	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0977	0.195	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0490	0.0977	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH



Sample Information

Client Sample ID: SB007 (0-2)

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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)

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 23:58	KH
131-11-3	Dimethyl 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
84-74-2	Di-n-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
117-84-0	Di-n-octyl 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
206-44-0	Fluoranthene	0.362		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
86-73-7	Fluorene	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
118-74-1	Hexachlorobenzene	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
87-68-3	Hexachlorobutadiene	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
77-47-4	Hexachlorocyclopentadiene	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
67-72-1	Hexachloroethane	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
193-39-5	Indeno(1,2,3-cd)pyrene	0.216		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
78-59-1	Isophorone	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
91-20-3	Naphthalene	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
98-95-3	Nitrobenzene	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
62-75-9	N-Nitrosodimethylamine	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
621-64-7	N-nitroso-di-n-propylamine	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
86-30-6	N-Nitrosodiphenylamine	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
87-86-5	Pentachlorophenol	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
85-01-8	Phenanthrene	0.133		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
108-95-2	Phenol	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
129-00-0	Pyrene	0.305		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
110-86-1	Pyridine	ND		mg/kg dry	0.196	0.391	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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)

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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 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:34	KML
7440-36-0	Antimony	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
7440-38-2	Arsenic	5.67		mg/kg dry	1.77	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:34	KML
7440-39-3	Barium	147		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
7440-41-7	Beryllium	0.320		mg/kg dry	0.059	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:34	KML
7440-43-9	Cadmium	0.947		mg/kg dry	0.354	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:34	KML
7440-70-2	Calcium	11000		mg/kg dry	5.90	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:34	KML
7440-47-3	Chromium	15.4		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
7440-48-4	Cobalt	8.65		mg/kg dry	0.472	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:34	KML
7440-50-8	Copper	117		mg/kg dry	2.36	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:34	KML
7439-89-6	Iron	18000		mg/kg dry	29.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:34	KML
7439-92-1	Lead	101		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
7439-95-4	Magnesium	2920		mg/kg dry	5.90	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:34	KML
7439-96-5	Manganese	416		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
7440-02-0	Nickel	18.8		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
7440-09-7	Potassium	1580		mg/kg dry	5.90	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:34	KML



Sample Information

Client Sample ID: SB007 (0-2)

York Sample ID: 19E0591-21

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 12:40 pm	<u>Date Received</u> 05/13/2019
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 7:00 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
101-55-3	4-Bromophenyl phenyl ether	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
59-50-7	4-Chloro-3-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
106-47-8	4-Chloroaniline	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
7005-72-3	4-Chlorophenyl phenyl ether	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
100-01-6	4-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
100-02-7	4-Nitrophenol	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
83-32-9	Acenaphthene	0.139		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
208-96-8	Acenaphthylene	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
98-86-2	Acetophenone	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
62-53-3	Aniline	ND		mg/kg dry	0.227	0.454	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
120-12-7	Anthracene	0.359		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
1912-24-9	Atrazine	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
100-52-7	Benzaldehyde	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
92-87-5	Benzidine	ND		mg/kg dry	0.227	0.454	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
56-55-3	Benzo(a)anthracene	0.964		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
50-32-8	Benzo(a)pyrene	1.20		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
205-99-2	Benzo(b)fluoranthene	0.865		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
191-24-2	Benzo(g,h,i)perylene	0.798		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
207-08-9	Benzo(k)fluoranthene	0.717		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
65-85-0	Benzoic acid	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
100-51-6	Benzyl alcohol	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
85-68-7	Benzyl butyl phthalate	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



Sample Information

Client Sample ID: SB008 (6-8)

York Sample ID: 19E0591-22

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 7:00 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
105-60-2	Caprolactam	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
86-74-8	Carbazole	0.111	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
218-01-9	Chrysene	0.830		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
53-70-3	Dibenzo(a,b)anthracene	0.177		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
132-64-9	Dibenzofuran	0.0598	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
84-66-2	Diethyl phthalate	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
131-11-3	Dimethyl phthalate	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
84-74-2	Di-n-butyl phthalate	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
117-84-0	Di-n-octyl phthalate	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
206-44-0	Fluoranthene	1.80		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
86-73-7	Fluorene	0.129		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
118-74-1	Hexachlorobenzene	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
87-68-3	Hexachlorobutadiene	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
77-47-4	Hexachlorocyclopentadiene	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
67-72-1	Hexachloroethane	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
193-39-5	Indeno(1,2,3-cd)pyrene	0.908		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
78-59-1	Isophorone	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
91-20-3	Naphthalene	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
98-95-3	Nitrobenzene	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



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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:27	KH
86-30-6	N-Nitrosodiphenylamine	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
87-86-5	Pentachlorophenol	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
85-01-8	Phenanthrene	1.35		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
108-95-2	Phenol	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
129-00-0	Pyrene	1.63		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
110-86-1	Pyridine	ND		mg/kg dry	0.227	0.454	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	KML
7440-36-0	Antimony	ND		mg/kg dry	3.41	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	KML
7440-38-2	Arsenic	4.78		mg/kg dry	2.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	KML
7440-39-3	Barium	56.5		mg/kg dry	3.41	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	KML
7440-41-7	Beryllium	0.258		mg/kg dry	0.068	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.409	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	KML
7440-70-2	Calcium	15900		mg/kg dry	6.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	KML



Sample Information

Client Sample ID: SB008 (6-8)

York Sample ID: 19E0591-22

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 7:00 am	<u>Date Received</u> 05/13/2019
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	17.3		mg/kg dry	0.682	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	KML
7440-48-4	Cobalt	8.83		mg/kg dry	0.545	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	KML
7440-50-8	Copper	19.8		mg/kg dry	2.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	KML
7439-89-6	Iron	17300		mg/kg dry	34.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	KML
7439-92-1	Lead	20.1		mg/kg dry	0.682	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	KML
7439-95-4	Magnesium	7310		mg/kg dry	6.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	KML
7439-96-5	Manganese	261		mg/kg dry	0.682	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	KML
7440-02-0	Nickel	16.6		mg/kg dry	1.36	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	KML
7440-09-7	Potassium	1630		mg/kg dry	6.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	KML
7782-49-2	Selenium	ND		mg/kg dry	3.41	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	KML
7440-22-4	Silver	ND		mg/kg dry	0.682	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	KML
7440-23-5	Sodium	284		mg/kg dry	68.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	KML
7440-28-0	Thallium	ND		mg/kg dry	3.41	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	KML
7440-62-2	Vanadium	26.4		mg/kg dry	1.36	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	KML
7440-66-6	Zinc	50.8		mg/kg dry	3.41	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:41	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	0.244		mg/kg dry	0.0409	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 14:45	05/22/2019 21:02	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
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Sample Information

Client Sample ID: SB008 (6-8)

York Sample ID: 19E0591-22

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 7:00 am	<u>Date Received</u> 05/13/2019
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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 Certifications: CTDOH	05/17/2019 18:10	05/18/2019 15:58	TJM

Sample Information

Client Sample ID: SB008 (0-2)

York Sample ID: 19E0591-23

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 7:05 am	<u>Date Received</u> 05/13/2019
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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 Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	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
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0566	0.113	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
58-90-2	2,3,4,6-Tetrachlorophenol	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
95-95-4	2,4,5-Trichlorophenol	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
88-06-2	2,4,6-Trichlorophenol	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
120-83-2	2,4-Dichlorophenol	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
105-67-9	2,4-Dimethylphenol	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
51-28-5	2,4-Dinitrophenol	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
121-14-2	2,4-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



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 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
86-73-7	Fluorene	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
118-74-1	Hexachlorobenzene	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
87-68-3	Hexachlorobutadiene	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
77-47-4	Hexachlorocyclopentadiene	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
67-72-1	Hexachloroethane	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
193-39-5	Indeno(1,2,3-cd)pyrene	0.225		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
78-59-1	Isophorone	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
91-20-3	Naphthalene	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
98-95-3	Nitrobenzene	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
62-75-9	N-Nitrosodimethylamine	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
621-64-7	N-nitroso-di-n-propylamine	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
86-30-6	N-Nitrosodiphenylamine	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
87-86-5	Pentachlorophenol	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
85-01-8	Phenanthrene	0.131		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
108-95-2	Phenol	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
129-00-0	Pyrene	0.257		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
110-86-1	Pyridine	ND		mg/kg dry	0.226	0.452	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 00:56	KH
	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

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	4130		mg/kg dry	6.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	KML
7440-36-0	Antimony	ND		mg/kg dry	3.40	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	KML
7440-38-2	Arsenic	3.53		mg/kg dry	2.04	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	KML
7440-39-3	Barium	62.1		mg/kg dry	3.40	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	KML
7440-41-7	Beryllium	0.208		mg/kg dry	0.068	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.409	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	KML
7440-70-2	Calcium	34200		mg/kg dry	6.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	KML
7440-47-3	Chromium	7.93		mg/kg dry	0.681	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	KML
7440-48-4	Cobalt	5.62		mg/kg dry	0.545	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	KML
7440-50-8	Copper	37.5		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	KML
7439-89-6	Iron	10600		mg/kg dry	34.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	KML
7439-92-1	Lead	50.9		mg/kg dry	0.681	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	KML
7439-95-4	Magnesium	3390		mg/kg dry	6.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	KML
7439-96-5	Manganese	160		mg/kg dry	0.681	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	KML
7440-02-0	Nickel	13.1		mg/kg dry	1.36	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	KML
7440-09-7	Potassium	752		mg/kg dry	6.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	KML
7782-49-2	Selenium	ND		mg/kg dry	3.40	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	KML
7440-22-4	Silver	ND		mg/kg dry	0.681	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	KML
7440-23-5	Sodium	214		mg/kg dry	68.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	KML
7440-28-0	Thallium	ND		mg/kg dry	3.40	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	KML
7440-62-2	Vanadium	11.9		mg/kg dry	1.36	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	KML



Sample Information

Client Sample ID: SB008 (0-2)

York Sample ID: 19E0591-23

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	57.5		mg/kg dry	3.40	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:43	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	0.0673		mg/kg dry	0.0409	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 14:45	05/22/2019 21:48	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	73.4		%	0.100	1	SM 2540G Certifications: CTDOH	05/17/2019 18:10	05/18/2019 15:58	TJM

Sample Information

Client Sample ID: SB008 (4-6)

York Sample ID: 19E0591-24

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 7:10 am	<u>Date Received</u> 05/13/2019
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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 Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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
95-50-1	1,2-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
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	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
541-73-1	1,3-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



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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
100-02-7	4-Nitrophenol	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
83-32-9	Acenaphthene	0.105	J	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
208-96-8	Acenaphthylene	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
98-86-2	Acetophenone	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
62-53-3	Aniline	ND		mg/kg dry	0.220	0.440	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
120-12-7	Anthracene	0.386		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
1912-24-9	Atrazine	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
100-52-7	Benzaldehyde	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
92-87-5	Benzidine	ND		mg/kg dry	0.220	0.440	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
65-85-0	Benzoic acid	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
100-51-6	Benzyl alcohol	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
85-68-7	Benzyl butyl phthalate	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
111-91-1	Bis(2-chloroethoxy)methane	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
111-44-4	Bis(2-chloroethyl)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
108-60-1	Bis(2-chloroisopropyl)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
117-81-7	Bis(2-ethylhexyl)phthalate	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
105-60-2	Caprolactam	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



Sample Information

Client Sample ID: SB008 (4-6)

York Sample ID: 19E0591-24

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 7:10 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
218-01-9	Chrysene	0.654		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
53-70-3	Dibenzo(a,h)anthracene	0.141		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
132-64-9	Dibenzofuran	0.0799	J	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
84-66-2	Diethyl phthalate	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
131-11-3	Dimethyl phthalate	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
84-74-2	Di-n-butyl phthalate	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
117-84-0	Di-n-octyl phthalate	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
206-44-0	Fluoranthene	1.49		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
86-73-7	Fluorene	0.122		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
118-74-1	Hexachlorobenzene	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
87-68-3	Hexachlorobutadiene	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
77-47-4	Hexachlorocyclopentadiene	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
67-72-1	Hexachloroethane	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
193-39-5	Indeno(1,2,3-cd)pyrene	0.495		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
78-59-1	Isophorone	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
91-20-3	Naphthalene	0.0676	J	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
98-95-3	Nitrobenzene	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
62-75-9	N-Nitrosodimethylamine	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
621-64-7	N-nitroso-di-n-propylamine	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
86-30-6	N-Nitrosodiphenylamine	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
87-86-5	Pentachlorophenol	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
85-01-8	Phenanthrene	0.999		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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 7:10 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:26	KH
129-00-0	Pyrene	1.42		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
110-86-1	Pyridine	ND		mg/kg dry	0.220	0.440	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	KML
7440-36-0	Antimony	ND		mg/kg dry	3.31	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	KML
7440-38-2	Arsenic	29.7		mg/kg dry	1.98	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	KML
7440-39-3	Barium	154		mg/kg dry	3.31	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	KML
7440-41-7	Beryllium	0.199		mg/kg dry	0.066	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	KML
7440-43-9	Cadmium	1.30		mg/kg dry	0.397	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	KML
7440-70-2	Calcium	15500		mg/kg dry	6.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	KML
7440-47-3	Chromium	14.3		mg/kg dry	0.661	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	KML
7440-48-4	Cobalt	6.25		mg/kg dry	0.529	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	KML
7440-50-8	Copper	336		mg/kg dry	2.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	KML
7439-89-6	Iron	13400		mg/kg dry	33.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	KML
7439-92-1	Lead	455		mg/kg dry	0.661	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	KML



Sample Information

Client Sample ID: SB008 (4-6)

York Sample ID: 19E0591-24

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	5280		mg/kg dry	6.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	KML
7439-96-5	Manganese	235		mg/kg dry	0.661	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	KML
7440-02-0	Nickel	13.1		mg/kg dry	1.32	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	KML
7440-09-7	Potassium	850		mg/kg dry	6.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	KML
7782-49-2	Selenium	ND		mg/kg dry	3.31	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	KML
7440-22-4	Silver	ND		mg/kg dry	0.661	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	KML
7440-23-5	Sodium	296		mg/kg dry	66.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	KML
7440-28-0	Thallium	ND		mg/kg dry	3.31	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	KML
7440-62-2	Vanadium	19.0		mg/kg dry	1.32	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	KML
7440-66-6	Zinc	531		mg/kg dry	3.31	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:45	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	0.746		mg/kg dry	0.0397	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 14:45	05/22/2019 21:57	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	75.6		%	0.100	1	SM 2540G Certifications: CTDOH	05/17/2019 18:10	05/18/2019 15:58	TJM

Sample Information

Client Sample ID: SB009 (6-8)

York Sample ID: 19E0591-25

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

Client Sample ID: SB009 (6-8)

York Sample ID: 19E0591-25

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:10 am	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 17:58	RDS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 17:58	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.054	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 17:58	RDS



Sample Information

Client Sample ID: SB009 (6-8)

York Sample ID: 19E0591-25

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:10 am	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
67-64-1	Acetone	0.0059	CCV-E, J	mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
107-02-8	Acrolein	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
108-86-1	Bromobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	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
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
75-09-2	Methylene chloride	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	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: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS



Sample Information

Client Sample ID: SB009 (6-8)

York Sample ID: 19E0591-25

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:10 am	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
108-05-4	Vinyl acetate	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:58	RDS
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0082	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 17:58	RDS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: <i>SURR: 1,2-Dichloroethane-d4</i>	105 %			77-125						
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	104 %			85-120						
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	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: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	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: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	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: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0946	0.189	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0946	0.189	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0946	0.189	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0946	0.189	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
62-53-3	Aniline	ND		mg/kg dry	0.189	0.379	2	EPA 8270D Certifications: NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
92-87-5	Benzidine	ND		mg/kg dry	0.189	0.379	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0946	0.189	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH



Sample Information

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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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
86-73-7	Fluorene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
108-95-2	Phenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 01:55	KH
110-86-1	Pyridine	ND		mg/kg dry	0.189	0.379	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:10 am	<u>Date Received</u> 05/13/2019
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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: SURRE: 2,4,6-Tribromophenol	91.4 %			19-110						
1718-51-0	Surrogate: SURRE: 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 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	KML
7440-36-0	Antimony	ND		mg/kg dry	2.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	KML
7440-38-2	Arsenic	ND		mg/kg dry	1.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	KML
7440-39-3	Barium	93.3		mg/kg dry	2.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.057	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	KML
7440-43-9	Cadmium	2.25		mg/kg dry	0.342	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	KML
7440-70-2	Calcium	16200		mg/kg dry	5.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	KML
7440-47-3	Chromium	18.5		mg/kg dry	0.569	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	KML
7440-48-4	Cobalt	11.9		mg/kg dry	0.455	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	KML
7440-50-8	Copper	18.9		mg/kg dry	2.28	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	KML
7439-89-6	Iron	16900		mg/kg dry	28.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	KML
7439-92-1	Lead	6.24		mg/kg dry	0.569	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	KML
7439-95-4	Magnesium	14700		mg/kg dry	5.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	KML
7439-96-5	Manganese	1760		mg/kg dry	0.569	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	KML
7440-02-0	Nickel	21.5		mg/kg dry	1.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	KML
7440-09-7	Potassium	3240		mg/kg dry	5.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	KML
7782-49-2	Selenium	ND		mg/kg dry	2.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	KML
7440-22-4	Silver	ND		mg/kg dry	0.569	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	KML



Sample Information

Client Sample ID: SB009 (6-8)

York Sample ID: 19E0591-25

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	267		mg/kg dry	56.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	KML
7440-28-0	Thallium	ND		mg/kg dry	2.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	KML
7440-62-2	Vanadium	28.0		mg/kg dry	1.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	KML
7440-66-6	Zinc	474		mg/kg dry	2.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:48	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	ND		mg/kg dry	0.0342	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 14:45	05/22/2019 22:10	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	87.8		%	0.100	1	SM 2540G Certifications: CTDOH	05/17/2019 18:10	05/18/2019 15:58	TJM

Sample Information

Client Sample ID: SB009 (2-4)

York Sample ID: 19E0591-26

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:00 am	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS



Sample Information

Client Sample ID: SB009 (2-4)

York Sample ID: 19E0591-26

York Project (SDG) No.

Client Project ID

Matrix

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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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 18:25	RDS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 18:25	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.061	0.12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 18:25	RDS
78-93-3	2-Butanone	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
591-78-6	2-Hexanone	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
67-64-1	Acetone	ND		mg/kg dry	0.0061	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
107-02-8	Acrolein	ND		mg/kg dry	0.0061	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
71-43-2	Benzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
108-86-1	Bromobenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
75-25-2	Bromoform	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
74-83-9	Bromomethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
75-00-3	Chloroethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
67-66-3	Chloroform	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
74-87-3	Chloromethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
110-82-7	Cyclohexane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
74-95-3	Dibromomethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS



Sample Information

Client Sample ID: SB009 (2-4)

York Sample ID: 19E0591-26

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:00 am	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
79-20-9	Methyl acetate	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
75-09-2	Methylene chloride	0.0068	J	mg/kg dry	0.0061	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
95-47-6	o-Xylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0061	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
100-42-5	Styrene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0031	0.031	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
108-88-3	Toluene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
108-05-4	Vinyl acetate	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS



Sample Information

Client Sample ID: SB009 (2-4)

York Sample ID: 19E0591-26

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:00 am	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:25	RDS
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0092	0.018	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	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: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	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: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0485	0.0967	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	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: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
120-83-2	2,4-Dichlorophenol	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
105-67-9	2,4-Dimethylphenol	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
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0967	0.193	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
121-14-2	2,4-Dinitrotoluene	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
606-20-2	2,6-Dinitrotoluene	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



Sample Information

Client Sample ID: SB009 (2-4)

York Sample ID: 19E0591-26

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:00 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
95-57-8	2-Chlorophenol	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
91-57-6	2-Methylnaphthalene	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
95-48-7	2-Methylphenol	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
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0967	0.193	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
88-75-5	2-Nitrophenol	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
65794-96-9	3- & 4-Methylphenols	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
91-94-1	3,3-Dichlorobenzidine	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
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0967	0.193	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0967	0.193	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
101-55-3	4-Bromophenyl phenyl 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
59-50-7	4-Chloro-3-methylphenol	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
106-47-8	4-Chloroaniline	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
7005-72-3	4-Chlorophenyl phenyl 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
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0967	0.193	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0967	0.193	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
83-32-9	Acenaphthene	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
208-96-8	Acenaphthylene	0.0727	J	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
98-86-2	Acetophenone	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
62-53-3	Aniline	ND		mg/kg dry	0.194	0.387	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 00:15	SR
120-12-7	Anthracene	0.144		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
1912-24-9	Atrazine	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
100-52-7	Benzaldehyde	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



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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:00 am	<u>Date Received</u> 05/13/2019
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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 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML
7440-36-0	Antimony	ND		mg/kg dry	2.92	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML
7440-38-2	Arsenic	6.39		mg/kg dry	1.75	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML
7440-39-3	Barium	278		mg/kg dry	2.92	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML
7440-41-7	Beryllium	0.282		mg/kg dry	0.058	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML
7440-43-9	Cadmium	1.21		mg/kg dry	0.350	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML
7440-70-2	Calcium	8070		mg/kg dry	5.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML
7440-47-3	Chromium	10.2		mg/kg dry	0.584	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML
7440-48-4	Cobalt	8.13		mg/kg dry	0.467	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML
7440-50-8	Copper	244		mg/kg dry	2.33	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML
7439-89-6	Iron	10100		mg/kg dry	29.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML
7439-92-1	Lead	357		mg/kg dry	0.584	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML
7439-95-4	Magnesium	1370		mg/kg dry	5.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML
7439-96-5	Manganese	145		mg/kg dry	0.584	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML
7440-02-0	Nickel	15.3		mg/kg dry	1.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML
7440-09-7	Potassium	560		mg/kg dry	5.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML
7782-49-2	Selenium	ND		mg/kg dry	2.92	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML
7440-22-4	Silver	ND		mg/kg dry	0.584	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML
7440-23-5	Sodium	217		mg/kg dry	58.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML
7440-28-0	Thallium	ND		mg/kg dry	2.92	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML
7440-62-2	Vanadium	22.8		mg/kg dry	1.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML
7440-66-6	Zinc	385		mg/kg dry	2.92	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:51	05/20/2019 18:50	KML



Sample Information

Client Sample ID: SB009 (2-4)

York Sample ID: 19E0591-26

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:00 am	<u>Date Received</u> 05/13/2019
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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 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 14:45	05/22/2019 22:18	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	85.7		%	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)

York Sample ID: 19E0591-27

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:05 am	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/17/2019 07:30	05/17/2019 12:57	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	05/17/2019 07:30	05/17/2019 12:57	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
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
123-91-1	1,4-Dioxane	ND		mg/kg dry	4.3	8.6	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	05/17/2019 07:30	05/17/2019 12:57	SS
78-93-3	2-Butanone	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
591-78-6	2-Hexanone	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
67-64-1	Acetone	ND		mg/kg dry	0.43	0.86	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
107-02-8	Acrolein	ND		mg/kg dry	0.43	0.86	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
71-43-2	Benzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
108-86-1	Bromobenzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS



Sample Information

Client Sample ID: SB009 (8-10)

York Sample ID: 19E0591-27

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:05 am	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-97-5	Bromochloromethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
75-25-2	Bromoform	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
74-83-9	Bromomethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
67-66-3	Chloroform	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
74-87-3	Chloromethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
110-82-7	Cyclohexane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
74-95-3	Dibromomethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
98-82-8	Isopropylbenzene	0.24	J	mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
79-20-9	Methyl acetate	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
75-09-2	Methylene chloride	ND		mg/kg dry	0.43	0.86	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS



Sample Information

Client Sample ID: SB009 (8-10)

York Sample ID: 19E0591-27

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:05 am	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	0.63		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
103-65-1	n-Propylbenzene	0.39	J	mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
95-47-6	o-Xylene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.43	0.86	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
135-98-8	sec-Butylbenzene	1.5		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
100-42-5	Styrene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.21	2.1	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
98-06-6	tert-Butylbenzene	0.40	J	mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
108-88-3	Toluene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
79-01-6	Trichloroethylene	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
108-05-4	Vinyl acetate	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.21	0.43	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 12:57	SS
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.64	1.3	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/17/2019 07:30	05/17/2019 12:57	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: <i>SURR: 1,2-Dichloroethane-d4</i>	89.4 %	77-125								
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	98.3 %	85-120								
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:05 am	<u>Date Received</u> 05/13/2019
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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: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	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: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	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: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.480	0.960	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.480	0.960	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.480	0.960	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH



Sample Information

Client Sample ID: SB009 (8-10)

York Sample ID: 19E0591-27

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:05 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.480	0.960	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.480	0.960	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
62-53-3	Aniline	ND		mg/kg dry	0.962	1.92	10	EPA 8270D Certifications: NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
120-12-7	Anthracene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
92-87-5	Benzidine	ND		mg/kg dry	0.962	1.92	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.480	0.960	10	EPA 8270D Certifications: NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
86-74-8	Carbazole	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
218-01-9	Chrysene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
86-73-7	Fluorene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
78-59-1	Isophorone	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH



Sample Information

Client Sample ID: SB009 (8-10)

York Sample ID: 19E0591-27

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 8:05 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
108-95-2	Phenol	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
129-00-0	Pyrene	ND		mg/kg dry	0.241	0.480	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 02:53	KH
110-86-1	Pyridine	ND		mg/kg dry	0.962	1.92	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:35	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 20:35	KML
7440-38-2	Arsenic	2.37		mg/kg dry	1.75	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:35	KML
7440-39-3	Barium	166		mg/kg dry	2.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:35	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 20:35	KML
7440-43-9	Cadmium	0.426		mg/kg dry	0.349	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:35	KML
7440-70-2	Calcium	12400		mg/kg dry	5.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:35	KML



Sample Information

Client Sample ID: SB009 (8-10)

York Sample ID: 19E0591-27

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	26.5		mg/kg dry	0.582	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:35	KML
7440-48-4	Cobalt	20.9		mg/kg dry	0.465	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:35	KML
7440-50-8	Copper	44.2		mg/kg dry	2.33	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:35	KML
7439-89-6	Iron	29700		mg/kg dry	29.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:35	KML
7439-92-1	Lead	77.8		mg/kg dry	0.582	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:35	KML
7439-95-4	Magnesium	15100		mg/kg dry	5.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:35	KML
7439-96-5	Manganese	226		mg/kg dry	0.582	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:35	KML
7440-02-0	Nickel	39.6		mg/kg dry	1.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:35	KML
7440-09-7	Potassium	8920		mg/kg dry	5.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:35	KML
7782-49-2	Selenium	ND		mg/kg dry	2.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:35	KML
7440-22-4	Silver	ND		mg/kg dry	0.582	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:35	KML
7440-23-5	Sodium	801		mg/kg dry	58.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:35	KML
7440-28-0	Thallium	ND		mg/kg dry	2.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:35	KML
7440-62-2	Vanadium	46.3		mg/kg dry	1.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:35	KML
7440-66-6	Zinc	104		mg/kg dry	2.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:35	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	0.243		mg/kg dry	0.0349	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 14:45	05/22/2019 22:27	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
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Sample Information

Client Sample ID: SB009 (8-10)

York Sample ID: 19E0591-27

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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 1:45 pm	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
91-58-7	2-Chloronaphthalene	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
95-57-8	2-Chlorophenol	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
91-57-6	2-Methylnaphthalene	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
95-48-7	2-Methylphenol	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
88-74-4	2-Nitroaniline	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
88-75-5	2-Nitrophenol	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
65794-96-9	3- & 4-Methylphenols	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
91-94-1	3,3-Dichlorobenzidine	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
99-09-2	3-Nitroaniline	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
534-52-1	4,6-Dinitro-2-methylphenol	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
101-55-3	4-Bromophenyl phenyl 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
59-50-7	4-Chloro-3-methylphenol	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
106-47-8	4-Chloroaniline	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
7005-72-3	4-Chlorophenyl phenyl 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
100-01-6	4-Nitroaniline	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
100-02-7	4-Nitrophenol	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
83-32-9	Acenaphthene	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
208-96-8	Acenaphthylene	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
98-86-2	Acetophenone	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
62-53-3	Aniline	ND		mg/kg dry	5.15	10.3	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
120-12-7	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
1912-24-9	Atrazine	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



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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:22	KH
86-73-7	Fluorene	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
118-74-1	Hexachlorobenzene	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
87-68-3	Hexachlorobutadiene	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
77-47-4	Hexachlorocyclopentadiene	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
67-72-1	Hexachloroethane	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
193-39-5	Indeno(1,2,3-cd)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
78-59-1	Isophorone	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
91-20-3	Naphthalene	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
98-95-3	Nitrobenzene	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
62-75-9	N-Nitrosodimethylamine	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
621-64-7	N-nitroso-di-n-propylamine	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
86-30-6	N-Nitrosodiphenylamine	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
87-86-5	Pentachlorophenol	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
85-01-8	Phenanthrene	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
108-95-2	Phenol	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
129-00-0	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
110-86-1	Pyridine	ND		mg/kg dry	5.15	10.3	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 1:45 pm	<u>Date Received</u> 05/13/2019
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	3580		mg/kg dry	6.23	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	KML
7440-36-0	Antimony	ND		mg/kg dry	3.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	KML
7440-38-2	Arsenic	3.89		mg/kg dry	1.87	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	KML
7440-39-3	Barium	32.9		mg/kg dry	3.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	KML
7440-41-7	Beryllium	0.062	B	mg/kg dry	0.062	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	KML
7440-43-9	Cadmium	0.424		mg/kg dry	0.374	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	KML
7440-70-2	Calcium	73600		mg/kg dry	6.23	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	KML
7440-47-3	Chromium	11.1		mg/kg dry	0.623	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	KML
7440-48-4	Cobalt	4.43		mg/kg dry	0.499	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	KML
7440-50-8	Copper	21.2		mg/kg dry	2.49	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	KML
7439-89-6	Iron	10900		mg/kg dry	31.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	KML
7439-92-1	Lead	62.4		mg/kg dry	0.623	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	KML
7439-95-4	Magnesium	39200		mg/kg dry	6.23	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	KML
7439-96-5	Manganese	240		mg/kg dry	0.623	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	KML
7440-02-0	Nickel	9.45		mg/kg dry	1.25	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	KML
7440-09-7	Potassium	847		mg/kg dry	6.23	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	KML
7782-49-2	Selenium	18.8		mg/kg dry	3.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	KML
7440-22-4	Silver	ND		mg/kg dry	0.623	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	KML
7440-23-5	Sodium	156		mg/kg dry	62.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	KML
7440-28-0	Thallium	ND		mg/kg dry	3.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	KML
7440-62-2	Vanadium	14.7		mg/kg dry	1.25	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	KML



Sample Information

Client Sample ID: SB010 (0-2)

York Sample ID: 19E0591-28

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 1:45 pm	<u>Date Received</u> 05/13/2019
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	72.7		mg/kg dry	3.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:38	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	0.216		mg/kg dry	0.0374	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 14:45	05/22/2019 22:36	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	80.2		%	0.100	1	SM 2540G Certifications: CTDOH	05/17/2019 18:10	05/18/2019 15:58	TJM

Sample Information

Client Sample ID: SB010 (6-8)

York Sample ID: 19E0591-29

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 1:50 pm	<u>Date Received</u> 05/13/2019
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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 Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	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
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	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: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
62-53-3	Aniline	ND		mg/kg dry	0.218	0.437	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
120-12-7	Anthracene	0.0819	J	mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
92-87-5	Benzidine	ND		mg/kg dry	0.218	0.437	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
56-55-3	Benzo(a)anthracene	0.252		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
50-32-8	Benzo(a)pyrene	0.281		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
205-99-2	Benzo(b)fluoranthene	0.219		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
191-24-2	Benzo(g,h,i)perylene	0.196		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
207-08-9	Benzo(k)fluoranthene	0.186		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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

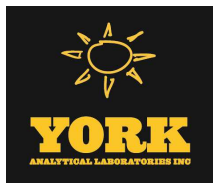
Semi-Volatiles, 8270 Comprehensive

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
86-74-8	Carbazole	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
218-01-9	Chrysene	0.227		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
206-44-0	Fluoranthene	0.459		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
86-73-7	Fluorene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
193-39-5	Indeno(1,2,3-cd)pyrene	0.217		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
85-01-8	Phenanthrene	0.315		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH



Sample Information

Client Sample ID: SB010 (6-8)

York Sample ID: 19E0591-29

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 1:50 pm	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
129-00-0	Pyrene	0.383		mg/kg dry	0.0546	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 03:51	KH
110-86-1	Pyridine	ND		mg/kg dry	0.218	0.437	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:40	KML
7440-36-0	Antimony	ND		mg/kg dry	3.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:40	KML
7440-38-2	Arsenic	4.18		mg/kg dry	1.98	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:40	KML
7440-39-3	Barium	53.1		mg/kg dry	3.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:40	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 20:40	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.396	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:40	KML
7440-70-2	Calcium	2900		mg/kg dry	6.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:40	KML
7440-47-3	Chromium	12.9		mg/kg dry	0.660	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:40	KML
7440-48-4	Cobalt	8.36		mg/kg dry	0.528	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:40	KML
7440-50-8	Copper	35.0		mg/kg dry	2.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:40	KML
7439-89-6	Iron	10600		mg/kg dry	33.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:40	KML
7439-92-1	Lead	52.1		mg/kg dry	0.660	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:40	KML



Sample Information

Client Sample ID: SB010 (6-8)

York Sample ID: 19E0591-29

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 1:50 pm	<u>Date Received</u> 05/13/2019
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	3060		mg/kg dry	6.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:40	KML
7439-96-5	Manganese	183		mg/kg dry	0.660	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:40	KML
7440-02-0	Nickel	17.0		mg/kg dry	1.32	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:40	KML
7440-09-7	Potassium	1260		mg/kg dry	6.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:40	KML
7782-49-2	Selenium	ND		mg/kg dry	3.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:40	KML
7440-22-4	Silver	ND		mg/kg dry	0.660	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:40	KML
7440-23-5	Sodium	290		mg/kg dry	66.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:40	KML
7440-28-0	Thallium	ND		mg/kg dry	3.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:40	KML
7440-62-2	Vanadium	19.1		mg/kg dry	1.32	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:40	KML
7440-66-6	Zinc	56.3		mg/kg dry	3.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:40	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	0.258		mg/kg dry	0.0396	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 14:45	05/22/2019 22:45	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	75.7		%	0.100	1	SM 2540G Certifications: CTDOH	05/17/2019 18:10	05/18/2019 15:58	TJM

Sample Information

Client Sample ID: SB010 (2-4)

York Sample ID: 19E0591-30

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 1:30 pm	<u>Date Received</u> 05/13/2019
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Sample Information

Client Sample ID: SB010 (2-4)

York Sample ID: 19E0591-30

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 1:30 pm	<u>Date Received</u> 05/13/2019
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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 Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
120-82-1	1,2,4-Trichlorobenzene	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
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
95-95-4	2,4,5-Trichlorophenol	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
88-06-2	2,4,6-Trichlorophenol	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
120-83-2	2,4-Dichlorophenol	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
105-67-9	2,4-Dimethylphenol	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
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
121-14-2	2,4-Dinitrotoluene	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
606-20-2	2,6-Dinitrotoluene	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
91-58-7	2-Chloronaphthalene	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
95-57-8	2-Chlorophenol	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
91-57-6	2-Methylnaphthalene	1.14		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
95-48-7	2-Methylphenol	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
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
88-75-5	2-Nitrophenol	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
65794-96-9	3- & 4-Methylphenols	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
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	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
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
101-55-3	4-Bromophenyl phenyl ether	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
59-50-7	4-Chloro-3-methylphenol	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
106-47-8	4-Chloroaniline	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
7005-72-3	4-Chlorophenyl phenyl ether	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
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
83-32-9	Acenaphthene	3.12		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
208-96-8	Acenaphthylene	0.186		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
98-86-2	Acetophenone	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
62-53-3	Aniline	ND		mg/kg dry	0.210	0.421	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
120-12-7	Anthracene	6.73		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
1912-24-9	Atrazine	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
92-87-5	Benzidine	ND		mg/kg dry	0.210	0.421	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
56-55-3	Benzo(a)anthracene	22.7		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
50-32-8	Benzo(a)pyrene	23.5		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
205-99-2	Benzo(b)fluoranthene	19.7		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
191-24-2	Benzo(g,h,i)perylene	14.0		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
207-08-9	Benzo(k)fluoranthene	15.2		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
65-85-0	Benzoic acid	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
86-74-8	Carbazole	1.57		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
218-01-9	Chrysene	20.3		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
53-70-3	Dibenzo(a,h)anthracene	3.42		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
132-64-9	Dibenzofuran	2.24		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
84-66-2	Diethyl phthalate	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
131-11-3	Dimethyl phthalate	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
84-74-2	Di-n-butyl phthalate	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
117-84-0	Di-n-octyl phthalate	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
206-44-0	Fluoranthene	48.2		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
86-73-7	Fluorene	2.42		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 01:20	SR
118-74-1	Hexachlorobenzene	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
87-68-3	Hexachlorobutadiene	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
77-47-4	Hexachlorocyclopentadiene	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
67-72-1	Hexachloroethane	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
193-39-5	Indeno(1,2,3-cd)pyrene	16.0		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
78-59-1	Isophorone	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
91-20-3	Naphthalene	8.47		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



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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 1:30 pm	<u>Date Received</u> 05/13/2019
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	16900		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
7440-47-3	Chromium	9.77		mg/kg dry	0.636	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:42	KML
7440-48-4	Cobalt	5.11		mg/kg dry	0.509	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:42	KML
7440-50-8	Copper	1430		mg/kg dry	2.54	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:42	KML
7439-89-6	Iron	13500		mg/kg dry	31.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:42	KML
7439-92-1	Lead	779		mg/kg dry	0.636	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:42	KML
7439-95-4	Magnesium	7550		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
7439-96-5	Manganese	240		mg/kg dry	0.636	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:42	KML
7440-02-0	Nickel	19.7		mg/kg dry	1.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:42	KML
7440-09-7	Potassium	923		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
7782-49-2	Selenium	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
7440-22-4	Silver	ND		mg/kg dry	0.636	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:42	KML
7440-23-5	Sodium	198		mg/kg dry	63.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:42	KML
7440-28-0	Thallium	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
7440-62-2	Vanadium	15.4		mg/kg dry	1.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:42	KML
7440-66-6	Zinc	1430		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

Mercury by 7473

Log-in Notes:

Sample Notes:

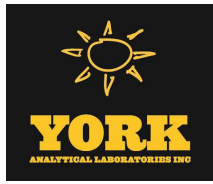
Sample Prepared by Method: EPA 7473 soil

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 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 14:45	05/22/2019 22:55	SY

Total Solids

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB010 (2-4)

York Sample ID: 19E0591-30

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 1:30 pm	<u>Date Received</u> 05/13/2019
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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 Certifications: CTDOH	05/17/2019 18:10	05/18/2019 15:58	TJM

Sample Information

Client Sample ID: MW001

York Sample ID: 19E0591-31

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 7:30 am	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:45	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 14:45	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 14:45	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 14:45	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 14:45	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 14:45	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 14:45	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 14:45	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 14:45	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 14:45	SS
120-82-1	1,2,4-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 14:45	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:45	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:45	SS
106-93-4	1,2-Dibromoethane	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 14:45	SS
95-50-1	1,2-Dichlorobenzene	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 14:45	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
107-06-2	1,2-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 14:45	SS
78-87-5	1,2-Dichloropropane	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 14:45	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:45	SS
541-73-1	1,3-Dichlorobenzene	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 14:45	SS
142-28-9	1,3-Dichloropropane	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 14:45	SS
106-46-7	1,4-Dichlorobenzene	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 14:45	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:45	SS
594-20-7	2,2-Dichloropropane	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 14:45	SS
78-93-3	2-Butanone	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 14:45	SS
95-49-8	2-Chlorotoluene	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 14:45	SS
591-78-6	2-Hexanone	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 14:45	SS
106-43-4	4-Chlorotoluene	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 14:45	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:45	SS
67-64-1	Acetone	1.06	J	ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:45	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:45	SS
107-13-1	Acrylonitrile	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 14:45	SS
71-43-2	Benzene	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 14:45	SS
108-86-1	Bromobenzene	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 14:45	SS
74-97-5	Bromochloromethane	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 14:45	SS
75-27-4	Bromodichloromethane	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 14:45	SS
75-25-2	Bromoform	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 14:45	SS
74-83-9	Bromomethane	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 14:45	SS
75-15-0	Carbon disulfide	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 14:45	SS



Sample Information

Client Sample ID: MW001

York Sample ID: 19E0591-31

York Project (SDG) No.

Client Project ID

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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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:45	SS
108-90-7	Chlorobenzene	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 14:45	SS
75-00-3	Chloroethane	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 14:45	SS
67-66-3	Chloroform	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 14:45	SS
74-87-3	Chloromethane	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 14:45	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:45	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:45	SS
110-82-7	Cyclohexane	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 14:45	SS
124-48-1	Dibromochloromethane	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 14:45	SS
74-95-3	Dibromomethane	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 14:45	SS
75-71-8	Dichlorodifluoromethane	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 14:45	SS
100-41-4	Ethyl Benzene	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 14:45	SS
87-68-3	Hexachlorobutadiene	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 14:45	SS
98-82-8	Isopropylbenzene	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 14:45	SS
79-20-9	Methyl acetate	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 14:45	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:45	SS
108-87-2	Methylcyclohexane	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 14:45	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:45	SS
104-51-8	n-Butylbenzene	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 14:45	SS
103-65-1	n-Propylbenzene	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 14:45	SS
95-47-6	o-Xylene	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 14:45	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:45	SS
99-87-6	p-Isopropyltoluene	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 14:45	SS



Sample Information

Client Sample ID: MW001

York Sample ID: 19E0591-31

York Project (SDG) No.

Client Project ID

Matrix

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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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:45	SS
100-42-5	Styrene	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 14:45	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:45	SS
98-06-6	tert-Butylbenzene	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 14:45	SS
127-18-4	Tetrachloroethylene	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 14:45	SS
108-88-3	Toluene	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 14:45	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:45	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:45	SS
79-01-6	Trichloroethylene	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 14:45	SS
75-69-4	Trichlorofluoromethane	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 14:45	SS
108-05-4	Vinyl acetate	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 14:45	SS
75-01-4	Vinyl Chloride	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 14:45	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 14:45	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: <i>SURR:</i> <i>1,2-Dichloroethane-d4</i>	99.1 %	70-130								
2037-26-5	Surrogate: <i>SURR:</i> <i>Toluene-d8</i>	98.7 %	70-130								
460-00-4	Surrogate: <i>SURR:</i> <i>p-Bromofluorobenzene</i>	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
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	05/28/2019 15:56	KH
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	05/28/2019 15:56	KH



Sample Information

Client Sample ID: MW001

York Sample ID: 19E0591-31

York Project (SDG) No.

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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

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
7005-72-3	4-Chlorophenyl 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
100-01-6	4-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
100-02-7	4-Nitrophenol	ND		ug/L	5.71	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
98-86-2	Acetophenone	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
62-53-3	Aniline	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
100-52-7	Benzaldehyde	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
92-87-5	Benzidine	ND		ug/L	5.71	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
65-85-0	Benzoic acid	ND		ug/L	28.6	57.1	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
100-51-6	Benzyl alcohol	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
85-68-7	Benzyl butyl phthalate	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
111-91-1	Bis(2-chloroethoxy)methane	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
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.14	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
108-60-1	Bis(2-chloroisopropyl)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
105-60-2	Caprolactam	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
86-74-8	Carbazole	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
132-64-9	Dibenzofuran	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
84-66-2	Diethyl phthalate	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
131-11-3	Dimethyl phthalate	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
84-74-2	Di-n-butyl phthalate	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
117-84-0	Di-n-octyl phthalate	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
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.71	11.4	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 15:56	KH
78-59-1	Isophorone	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
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

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 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

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various compounds like Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, etc.

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists pesticides like 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Aldrin, etc.



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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 12:55	CM
60-57-1	Dieldrin	ND		ug/L	0.00216	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 12:55	CM
959-98-8	Endosulfan I	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 12:55	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 12:55	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 12:55	CM
72-20-8	Endrin	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 12:55	CM
7421-93-4	Endrin aldehyde	ND		ug/L	0.0108	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 12:55	CM
53494-70-5	Endrin ketone	ND		ug/L	0.0108	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 12:55	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 12:55	CM
5566-34-7	gamma-Chlordane	ND		ug/L	0.0108	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 12:55	CM
76-44-8	Heptachlor	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 12:55	CM
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 12:55	CM
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 12:55	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 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: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/23/2019 17:24	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 17:24	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 17:24	SR



Sample Information

Client Sample ID: MW001

York Sample ID: 19E0591-31

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 7:30 am	<u>Date Received</u> 05/13/2019
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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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 7:30 am	<u>Date Received</u> 05/13/2019
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Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:21	KML
7440-23-5	Sodium	525000		ug/L	556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:21	KML
7440-62-2	Vanadium	50.9		ug/L	11.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:21	KML
7440-66-6	Zinc	408		ug/L	27.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:21	KML

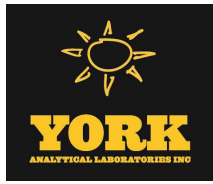
Metals, Target Analyte, ICP Dissolved

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 10:51	KML
7440-39-3	Barium	0.128		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:51	KML
7440-70-2	Calcium	157		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:51	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 10:51	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 10:51	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 10:51	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 10:51	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 10:51	KML
7439-95-4	Magnesium	27.7		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:51	KML
7439-96-5	Manganese	1.52		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:51	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 10:51	KML
7440-09-7	Potassium	15.6		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:51	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 10:51	KML
7440-23-5	Sodium	453		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:51	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 10:51	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 10:51	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, 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 13:20	BML
7440-38-2	Arsenic	28.3		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 13:20	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 13:20	BML
7440-43-9	Cadmium	1.30		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 13:20	BML
7782-49-2	Selenium	20.5		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 13:20	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 13:20	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 15:11	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 15:11	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 15:11	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 15:11	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 15:11	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 15:11	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 11:11	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 10:35	SY



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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 15:17	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 15:17	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 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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 15:17	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 15:17	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 15:17	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 15:17	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 15:17	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 15:17	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 15:17	SS
120-82-1	1,2,4-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 15:17	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 15:17	SS
106-93-4	1,2-Dibromoethane	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 15:17	SS
95-50-1	1,2-Dichlorobenzene	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 15:17	SS
107-06-2	1,2-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 15:17	SS
78-87-5	1,2-Dichloropropane	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 15:17	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 15:17	SS
541-73-1	1,3-Dichlorobenzene	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 15:17	SS
142-28-9	1,3-Dichloropropane	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 15:17	SS
106-46-7	1,4-Dichlorobenzene	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 15:17	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 15:17	SS
594-20-7	2,2-Dichloropropane	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 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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 15:17	SS
95-49-8	2-Chlorotoluene	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 15:17	SS
591-78-6	2-Hexanone	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 15:17	SS
106-43-4	4-Chlorotoluene	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 15:17	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 15:17	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 15:17	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 15:17	SS
107-13-1	Acrylonitrile	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 15:17	SS
71-43-2	Benzene	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 15:17	SS
108-86-1	Bromobenzene	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 15:17	SS
74-97-5	Bromochloromethane	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 15:17	SS
75-27-4	Bromodichloromethane	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 15:17	SS
75-25-2	Bromoform	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 15:17	SS
74-83-9	Bromomethane	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 15:17	SS
75-15-0	Carbon disulfide	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 15:17	SS
56-23-5	Carbon tetrachloride	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 15:17	SS
108-90-7	Chlorobenzene	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 15:17	SS
75-00-3	Chloroethane	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 15:17	SS
67-66-3	Chloroform	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 15:17	SS
74-87-3	Chloromethane	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 15:17	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 15:17	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 15:17	SS
110-82-7	Cyclohexane	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 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
124-48-1	Dibromochloromethane	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 15:17	SS
74-95-3	Dibromomethane	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 15:17	SS
75-71-8	Dichlorodifluoromethane	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 15:17	SS
100-41-4	Ethyl Benzene	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 15:17	SS
87-68-3	Hexachlorobutadiene	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 15:17	SS
98-82-8	Isopropylbenzene	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 15:17	SS
79-20-9	Methyl acetate	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 15:17	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 15:17	SS
108-87-2	Methylcyclohexane	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 15:17	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 15:17	SS
104-51-8	n-Butylbenzene	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 15:17	SS
103-65-1	n-Propylbenzene	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 15:17	SS
95-47-6	o-Xylene	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 15:17	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 15:17	SS
99-87-6	p-Isopropyltoluene	5.51		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 15:17	SS
135-98-8	sec-Butylbenzene	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 15:17	SS
100-42-5	Styrene	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 15:17	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 15:17	SS
98-06-6	tert-Butylbenzene	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 15:17	SS
127-18-4	Tetrachloroethylene	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 15:17	SS
108-88-3	Toluene	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 15:17	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 15:17	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 15:17	SS
75-69-4	Trichlorofluoromethane	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 15:17	SS
108-05-4	Vinyl acetate	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 15:17	SS
75-01-4	Vinyl Chloride	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 15:17	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 15:17	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: <i>SURR: 1,2-Dichloroethane-d4</i>	92.6 %			70-130						
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	98.4 %			70-130						
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
95-57-8	2-Chlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
95-48-7	2-Methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
88-74-4	2-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
99-09-2	3-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
106-47-8	4-Chloroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
100-01-6	4-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
98-86-2	Acetophenone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
62-53-3	Aniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
100-52-7	Benzaldehyde	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
92-87-5	Benzidine	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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

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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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
100-51-6	Benzyl alcohol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.11	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
105-60-2	Caprolactam	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
86-74-8	Carbazole	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
132-64-9	Dibenzofuran	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.56	11.1	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
78-59-1	Isophorone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
108-95-2	Phenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:04	SR
110-86-1	Pyridine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 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

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Multiple rows listing various pesticides like 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Aldrin, alpha-BHC, etc.



Sample Information

Client Sample ID: MW002

York Sample ID: 19E0591-32

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 10:00 am	<u>Date Received</u> 05/13/2019
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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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 10:00 am	<u>Date Received</u> 05/13/2019
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Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	172000		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:23	KML
7440-47-3	Chromium	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:23	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 13:23	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 13:23	KML
7439-89-6	Iron	3940		ug/L	278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:23	KML
7439-92-1	Lead	16.6		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:23	KML
7439-95-4	Magnesium	265000		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:23	KML
7439-96-5	Manganese	409		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:23	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 13:23	KML
7440-09-7	Potassium	95600		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:23	KML
7440-22-4	Silver	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:23	KML
7440-23-5	Sodium	3030000		ug/L	5560	10	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/20/2019 10:40	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 13:23	KML
7440-66-6	Zinc	59.0		ug/L	27.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:23	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	0.0755		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:53	KML
7440-39-3	Barium	0.0685		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:53	KML
7440-70-2	Calcium	162		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:53	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 10:53	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 10:53	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 10:53	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 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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:53	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 10:53	KML
7439-95-4	Magnesium	248		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:53	KML
7439-96-5	Manganese	0.393		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:53	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 10:53	KML
7440-09-7	Potassium	88.4		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:53	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 10:53	KML
7440-23-5	Sodium	3250		mg/L	5.56	10	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:44	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 10:53	KML
7440-66-6	Zinc	0.0302		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:53	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	1.13		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 13:24	BML
7440-38-2	Arsenic	1.32		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 13:24	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 13:24	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 13:24	BML
7782-49-2	Selenium	84.5		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 13:24	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 13:24	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 15:16	BML



Sample Information

Client Sample ID: MW002

York Sample ID: 19E0591-32

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 10:00 am	<u>Date Received</u> 05/13/2019
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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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 11:00 am	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:23	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 17:23	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 17:23	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 17:23	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 17:23	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 17:23	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 17:23	SS
120-82-1	1,2,4-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 17:23	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:23	SS
106-93-4	1,2-Dibromoethane	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
95-50-1	1,2-Dichlorobenzene	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
107-06-2	1,2-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 17:23	SS
78-87-5	1,2-Dichloropropane	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
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:23	SS
541-73-1	1,3-Dichlorobenzene	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
142-28-9	1,3-Dichloropropane	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 17:23	SS
106-46-7	1,4-Dichlorobenzene	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
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:23	SS
594-20-7	2,2-Dichloropropane	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 17:23	SS
78-93-3	2-Butanone	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
95-49-8	2-Chlorotoluene	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
591-78-6	2-Hexanone	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
106-43-4	4-Chlorotoluene	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
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:23	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:23	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:23	SS
107-13-1	Acrylonitrile	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
71-43-2	Benzene	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
108-86-1	Bromobenzene	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 17:23	SS
74-97-5	Bromochloromethane	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 17:23	SS
75-27-4	Bromodichloromethane	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
75-25-2	Bromoform	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
74-83-9	Bromomethane	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
75-15-0	Carbon disulfide	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
56-23-5	Carbon tetrachloride	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
108-90-7	Chlorobenzene	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
75-00-3	Chloroethane	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
67-66-3	Chloroform	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
74-87-3	Chloromethane	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
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:23	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:23	SS
110-82-7	Cyclohexane	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 17:23	SS
124-48-1	Dibromochloromethane	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
74-95-3	Dibromomethane	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 17:23	SS
75-71-8	Dichlorodifluoromethane	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 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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:23	SS
87-68-3	Hexachlorobutadiene	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 17:23	SS
98-82-8	Isopropylbenzene	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
79-20-9	Methyl acetate	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 17:23	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:23	SS
108-87-2	Methylcyclohexane	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 17:23	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:23	SS
104-51-8	n-Butylbenzene	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
103-65-1	n-Propylbenzene	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
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 07:30	05/16/2019 17:23	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 07:30	05/16/2019 17:23	SS
99-87-6	p-Isopropyltoluene	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
135-98-8	sec-Butylbenzene	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
100-42-5	Styrene	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
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:23	SS
98-06-6	tert-Butylbenzene	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
127-18-4	Tetrachloroethylene	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
108-88-3	Toluene	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
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:23	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:23	SS
79-01-6	Trichloroethylene	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
75-69-4	Trichlorofluoromethane	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
108-05-4	Vinyl acetate	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 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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:23	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
95-57-8	2-Chlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
95-48-7	2-Methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
88-74-4	2-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
99-09-2	3-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
106-47-8	4-Chloroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
100-01-6	4-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
98-86-2	Acetophenone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
62-53-3	Aniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
100-52-7	Benzaldehyde	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
92-87-5	Benzidine	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
65-85-0	Benzoic acid	ND		ug/L	27.8	55.6	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
100-51-6	Benzyl alcohol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR



Sample Information

Client Sample ID: MW003

York Sample ID: 19E0591-33

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 11:00 am	<u>Date Received</u> 05/13/2019
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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.11	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
105-60-2	Caprolactam	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
86-74-8	Carbazole	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
132-64-9	Dibenzofuran	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.56	11.1	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
78-59-1	Isophorone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
108-95-2	Phenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 17:51	SR
110-86-1	Pyridine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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
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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.

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Matrix

Collection Date/Time

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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 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 18:13	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	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 23:31	CM
72-55-9	4,4'-DDE	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
50-29-3	4,4'-DDT	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
309-00-2	Aldrin	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
319-84-6	alpha-BHC	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
5103-71-9	alpha-Chlordane	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
319-85-7	beta-BHC	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
319-86-8	delta-BHC	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
60-57-1	Dieldrin	ND		ug/L	0.00216	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 23:31	CM
959-98-8	Endosulfan I	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
33213-65-9	Endosulfan II	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
1031-07-8	Endosulfan sulfate	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
72-20-8	Endrin	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
7421-93-4	Endrin aldehyde	ND		ug/L	0.0108	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 23:31	CM
53494-70-5	Endrin ketone	ND		ug/L	0.0108	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 23:31	CM
58-89-9	gamma-BHC (Lindane)	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
5566-34-7	gamma-Chlordane	ND		ug/L	0.0108	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 23:31	CM
76-44-8	Heptachlor	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
1024-57-3	Heptachlor epoxide	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



Sample Information

Client Sample ID: MW003

York Sample ID: 19E0591-33

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 11:00 am	<u>Date Received</u> 05/13/2019
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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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 11:00 am	<u>Date Received</u> 05/13/2019
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Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	80600		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:31	KML
7440-47-3	Chromium	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:31	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 13:31	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 13:31	KML
7439-89-6	Iron	822		ug/L	278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:31	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 13:31	KML
7439-95-4	Magnesium	94700		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:31	KML
7439-96-5	Manganese	48.1		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:31	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 13:31	KML
7440-09-7	Potassium	33700		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:31	KML
7440-22-4	Silver	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:31	KML
7440-23-5	Sodium	905000		ug/L	556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:31	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 13:31	KML
7440-66-6	Zinc	29.4		ug/L	27.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:31	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 10:56	KML
7440-39-3	Barium	0.0346		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:56	KML
7440-70-2	Calcium	77.5		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:56	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 10:56	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 10:56	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 10:56	KML



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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:56	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 10:56	KML
7439-95-4	Magnesium	88.1		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:56	KML
7439-96-5	Manganese	0.0202		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:56	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 10:56	KML
7440-09-7	Potassium	31.2		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:56	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 10:56	KML
7440-23-5	Sodium	847		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:56	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 10:56	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 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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 13:39	BML
7440-38-2	Arsenic	4.26		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 13:39	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 13:39	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 13:39	BML
7782-49-2	Selenium	32.4		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 13:39	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 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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:21	BML



Sample Information

Client Sample ID: MW003

York Sample ID: 19E0591-33

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 11:00 am	<u>Date Received</u> 05/13/2019
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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 15:21	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 15:21	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 15:21	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 15:21	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 15:21	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 09:41	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 10:01	05/21/2019 11:22	SY

Sample Information

Client Sample ID: MW004

York Sample ID: 19E0591-34

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 12:15 pm	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:54	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 17:54	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 17:54	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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:54	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 17:54	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 17:54	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 17:54	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 17:54	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 17:54	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 17:54	SS
120-82-1	1,2,4-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 17:54	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:54	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:54	SS
106-93-4	1,2-Dibromoethane	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 17:54	SS
95-50-1	1,2-Dichlorobenzene	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 17:54	SS
107-06-2	1,2-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 17:54	SS
78-87-5	1,2-Dichloropropane	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 17:54	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:54	SS
541-73-1	1,3-Dichlorobenzene	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 17:54	SS
142-28-9	1,3-Dichloropropane	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 17:54	SS
106-46-7	1,4-Dichlorobenzene	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 17:54	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:54	SS
594-20-7	2,2-Dichloropropane	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 17:54	SS
78-93-3	2-Butanone	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 17:54	SS
95-49-8	2-Chlorotoluene	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 17:54	SS
591-78-6	2-Hexanone	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 17:54	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
106-43-4	4-Chlorotoluene	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 17:54	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:54	SS
67-64-1	Acetone	1.80	J	ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:54	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:54	SS
107-13-1	Acrylonitrile	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 17:54	SS
71-43-2	Benzene	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 17:54	SS
108-86-1	Bromobenzene	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 17:54	SS
74-97-5	Bromochloromethane	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 17:54	SS
75-27-4	Bromodichloromethane	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 17:54	SS
75-25-2	Bromoform	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 17:54	SS
74-83-9	Bromomethane	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 17:54	SS
75-15-0	Carbon disulfide	0.450	J	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 17:54	SS
56-23-5	Carbon tetrachloride	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 17:54	SS
108-90-7	Chlorobenzene	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 17:54	SS
75-00-3	Chloroethane	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 17:54	SS
67-66-3	Chloroform	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 17:54	SS
74-87-3	Chloromethane	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 17:54	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:54	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:54	SS
110-82-7	Cyclohexane	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 17:54	SS
124-48-1	Dibromochloromethane	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 17:54	SS
74-95-3	Dibromomethane	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 17:54	SS
75-71-8	Dichlorodifluoromethane	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 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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:54	SS
87-68-3	Hexachlorobutadiene	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 17:54	SS
98-82-8	Isopropylbenzene	10.6		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 17:54	SS
79-20-9	Methyl acetate	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 17:54	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:54	SS
108-87-2	Methylcyclohexane	0.260	J	ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:54	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:54	SS
104-51-8	n-Butylbenzene	1.64		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 17:54	SS
103-65-1	n-Propylbenzene	16.4		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 17:54	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 07:30	05/16/2019 17:54	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 07:30	05/16/2019 17:54	SS
99-87-6	p-Isopropyltoluene	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 17:54	SS
135-98-8	sec-Butylbenzene	5.96		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 17:54	SS
100-42-5	Styrene	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 17:54	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:54	SS
98-06-6	tert-Butylbenzene	1.91		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 17:54	SS
127-18-4	Tetrachloroethylene	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 17:54	SS
108-88-3	Toluene	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 17:54	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:54	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:54	SS
79-01-6	Trichloroethylene	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 17:54	SS
75-69-4	Trichlorofluoromethane	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 17:54	SS
108-05-4	Vinyl acetate	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 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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 17:54	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
95-48-7	2-Methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
100-02-7	4-Nitrophenol	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
98-86-2	Acetophenone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
62-53-3	Aniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
100-52-7	Benzaldehyde	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
92-87-5	Benzidine	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
65-85-0	Benzoic acid	ND		ug/L	27.8	55.6	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.11	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
105-60-2	Caprolactam	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
86-74-8	Carbazole	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
132-64-9	Dibenzofuran	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.56	11.1	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
78-59-1	Isophorone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
108-95-2	Phenol	4.72	J	ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/28/2019 16:25	KH
110-86-1	Pyridine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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
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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 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 22:56	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	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 13:10	CM
72-55-9	4,4'-DDE	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
50-29-3	4,4'-DDT	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
309-00-2	Aldrin	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
319-84-6	alpha-BHC	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
5103-71-9	alpha-Chlordane	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
319-85-7	beta-BHC	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
319-86-8	delta-BHC	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
60-57-1	Dieldrin	ND		ug/L	0.00216	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 13:10	CM
959-98-8	Endosulfan I	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
33213-65-9	Endosulfan II	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
1031-07-8	Endosulfan sulfate	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
72-20-8	Endrin	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
7421-93-4	Endrin aldehyde	ND		ug/L	0.0108	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 13:10	CM
53494-70-5	Endrin ketone	ND		ug/L	0.0108	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 13:10	CM
58-89-9	gamma-BHC (Lindane)	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
5566-34-7	gamma-Chlordane	ND		ug/L	0.0108	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 13:10	CM
76-44-8	Heptachlor	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
1024-57-3	Heptachlor epoxide	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



Sample Information

Client Sample ID: MW004

York Sample ID: 19E0591-34

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 12:15 pm	<u>Date Received</u> 05/13/2019
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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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 12:15 pm	<u>Date Received</u> 05/13/2019
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Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	202000		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:34	KML
7440-47-3	Chromium	34.8		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:34	KML
7440-48-4	Cobalt	17.3		ug/L	4.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:34	KML
7440-50-8	Copper	398		ug/L	22.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:34	KML
7439-89-6	Iron	20300		ug/L	278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:34	KML
7439-92-1	Lead	203		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:34	KML
7439-95-4	Magnesium	110000		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:34	KML
7439-96-5	Manganese	610		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:34	KML
7440-02-0	Nickel	29.5		ug/L	11.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:34	KML
7440-09-7	Potassium	80900		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:34	KML
7440-22-4	Silver	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:34	KML
7440-23-5	Sodium	1630000		ug/L	5560	10	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/20/2019 10:43	KML
7440-62-2	Vanadium	47.9		ug/L	11.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:34	KML
7440-66-6	Zinc	933		ug/L	27.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:34	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	0.0822		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:59	KML
7440-39-3	Barium	0.0937		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:59	KML
7440-70-2	Calcium	103		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:59	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 10:59	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 10:59	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 10:59	KML



Sample Information

Client Sample ID: MW004

York Sample ID: 19E0591-34

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 12:15 pm	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:59	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 10:59	KML
7439-95-4	Magnesium	75.9		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:59	KML
7439-96-5	Manganese	0.0308		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:59	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 10:59	KML
7440-09-7	Potassium	70.6		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:59	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 10:59	KML
7440-23-5	Sodium	1260		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:59	KML
7440-62-2	Vanadium	0.0202		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 10:59	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 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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 13:44	BML
7440-38-2	Arsenic	16.4		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 13:44	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 13:44	BML
7440-43-9	Cadmium	2.31		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 13:44	BML
7782-49-2	Selenium	56.4		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 13:44	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 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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:26	BML



Sample Information

Client Sample ID: MW004

York Sample ID: 19E0591-34

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 12:15 pm	<u>Date Received</u> 05/13/2019
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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 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:26	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 15:26	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 15:26	BML
7782-49-2	Selenium	12.7		ug/L	11.1	10	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:26	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 15:26	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 12:08	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 11:33	SY

Sample Information

Client Sample ID: DUPE001

York Sample ID: 19E0591-35

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 12:00 am	<u>Date Received</u> 05/13/2019
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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 Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 12:00 am	<u>Date Received</u> 05/13/2019
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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-NY 10854,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-NY 10854,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-NY 10854,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-NY 10854,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-NY 10854,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-NY 10854,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-NY 10854,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-NY 10854,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-NY 10854,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-NY 10854,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-NY 10854,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-NY 10854,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-NY 10854,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-NY 10854,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-NY 10854,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-NY 10854,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-NY 10854,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-NY 10854,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-NY 10854,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-NY 10854,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-NY 10854,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-NY 10854,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-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH



Sample Information

Client Sample ID: DUPE001

York Sample ID: 19E0591-35

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 12:00 am	<u>Date Received</u> 05/13/2019
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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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.109	0.217	2	EPA 8270D Certifications: NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
86-74-8	Carbazole	0.246		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
218-01-9	Chrysene	1.27		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
132-64-9	Dibenzofuran	0.128		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
206-44-0	Fluoranthene	2.83		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
86-73-7	Fluorene	0.169		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
91-20-3	Naphthalene	0.135		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0544	0.109	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY 10854,NJDEP,PADEP	05/21/2019 08:26	05/23/2019 04:49	KH



Sample Information

Client Sample ID: DUPE001

York Sample ID: 19E0591-35

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 12:00 am	<u>Date Received</u> 05/13/2019
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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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 12:00 am	<u>Date Received</u> 05/13/2019
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	18.8		mg/kg dry	2.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:44	KML
7439-89-6	Iron	15600		mg/kg dry	32.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:44	KML
7439-92-1	Lead	24.8		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
7439-95-4	Magnesium	3730		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
7439-96-5	Manganese	254		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
7440-02-0	Nickel	15.3		mg/kg dry	1.31	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:44	KML
7440-09-7	Potassium	1060		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
7782-49-2	Selenium	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
7440-22-4	Silver	ND		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
7440-23-5	Sodium	207		mg/kg dry	65.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:44	KML
7440-28-0	Thallium	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
7440-62-2	Vanadium	16.8		mg/kg dry	1.31	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:44	KML
7440-66-6	Zinc	43.3		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

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 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 14:45	05/22/2019 23:03	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	76.5		%	0.100	1	SM 2540G Certifications: CTDOH	05/17/2019 18:10	05/18/2019 15:58	TJM



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: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	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: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/21/2019 08:26	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: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR



Sample Information

Client Sample ID: DUPE002

York Sample ID: 19E0591-36

York Project (SDG) No.

Client Project ID

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
83-32-9	Acenaphthene	0.108		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
62-53-3	Aniline	ND		mg/kg dry	0.213	0.425	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
120-12-7	Anthracene	0.515		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
92-87-5	Benzidine	ND		mg/kg dry	0.213	0.425	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
56-55-3	Benzo(a)anthracene	1.08		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
50-32-8	Benzo(a)pyrene	1.28		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
205-99-2	Benzo(b)fluoranthene	0.921		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
191-24-2	Benzo(g,h,i)perylene	0.689		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
207-08-9	Benzo(k)fluoranthene	0.765		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR



Sample Information

Client Sample ID: DUPE002

York Sample ID: 19E0591-36

York Project (SDG) No.

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.106	0.212	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
218-01-9	Chrysene	0.948		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
53-70-3	Dibenzo(a,h)anthracene	0.214		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
132-64-9	Dibenzofuran	0.0815	J	mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
206-44-0	Fluoranthene	2.23		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
86-73-7	Fluorene	0.138		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
193-39-5	Indeno(1,2,3-cd)pyrene	0.779		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
91-20-3	Naphthalene	0.0611	J	mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR



Sample Information

Client Sample ID: DUPE002

York Sample ID: 19E0591-36

York Project (SDG) No.

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
85-01-8	Phenanthrene	1.39		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
108-95-2	Phenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
129-00-0	Pyrene	1.95		mg/kg dry	0.0532	0.106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	05/22/2019 02:23	SR
110-86-1	Pyridine	ND		mg/kg dry	0.213	0.425	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 08:26	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:46	KML
7440-36-0	Antimony	ND		mg/kg dry	3.20	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:46	KML
7440-38-2	Arsenic	5.95		mg/kg dry	1.92	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:46	KML
7440-39-3	Barium	41.5		mg/kg dry	3.20	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:46	KML
7440-41-7	Beryllium	0.101	B	mg/kg dry	0.064	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:46	KML
7440-43-9	Cadmium	1.42		mg/kg dry	0.383	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	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 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:46	KML
7440-47-3	Chromium	8.29		mg/kg dry	0.639	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:46	KML
7440-48-4	Cobalt	4.98		mg/kg dry	0.511	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:46	KML
7440-50-8	Copper	381		mg/kg dry	2.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:46	KML
7439-89-6	Iron	10100		mg/kg dry	32.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:46	KML
7439-92-1	Lead	135		mg/kg dry	0.639	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:46	KML
7439-95-4	Magnesium	8910		mg/kg dry	6.39	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:46	KML
7439-96-5	Manganese	232		mg/kg dry	0.639	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:46	KML
7440-02-0	Nickel	10.3		mg/kg dry	1.28	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:46	KML
7440-09-7	Potassium	800		mg/kg dry	6.39	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:46	KML
7782-49-2	Selenium	ND		mg/kg dry	3.20	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:46	KML
7440-22-4	Silver	ND		mg/kg dry	0.639	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:46	KML
7440-23-5	Sodium	273		mg/kg dry	63.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:46	KML
7440-28-0	Thallium	ND		mg/kg dry	3.20	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:46	KML
7440-62-2	Vanadium	16.1		mg/kg dry	1.28	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:46	KML
7440-66-6	Zinc	645		mg/kg dry	3.20	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/20/2019 14:50	05/20/2019 20:46	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	0.613		mg/kg dry	0.0383	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	05/22/2019 14:45	05/22/2019 23:13	SY

Total Solids

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: DUPE002

York Sample ID: 19E0591-36

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 12:00 am	<u>Date Received</u> 05/13/2019
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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 Certifications: CTDOH	05/17/2019 18:10	05/18/2019 15:58	TJM

Sample Information

Client Sample ID: DUPE003

York Sample ID: 19E0591-37

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 12:00 am	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:27	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 18:27	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 18:27	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 18:27	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 18:27	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 18:27	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 18:27	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 18:27	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 18:27	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 18:27	SS
120-82-1	1,2,4-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 18:27	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:27	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:27	SS
106-93-4	1,2-Dibromoethane	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 18:27	SS
95-50-1	1,2-Dichlorobenzene	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 18:27	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
107-06-2	1,2-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 18:27	SS
78-87-5	1,2-Dichloropropane	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 18:27	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:27	SS
541-73-1	1,3-Dichlorobenzene	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 18:27	SS
142-28-9	1,3-Dichloropropane	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 18:27	SS
106-46-7	1,4-Dichlorobenzene	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 18:27	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:27	SS
594-20-7	2,2-Dichloropropane	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 18:27	SS
78-93-3	2-Butanone	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 18:27	SS
95-49-8	2-Chlorotoluene	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 18:27	SS
591-78-6	2-Hexanone	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 18:27	SS
106-43-4	4-Chlorotoluene	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 18:27	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:27	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:27	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:27	SS
107-13-1	Acrylonitrile	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 18:27	SS
71-43-2	Benzene	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 18:27	SS
108-86-1	Bromobenzene	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 18:27	SS
74-97-5	Bromochloromethane	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 18:27	SS
75-27-4	Bromodichloromethane	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 18:27	SS
75-25-2	Bromoform	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 18:27	SS
74-83-9	Bromomethane	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 18:27	SS
75-15-0	Carbon disulfide	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 18:27	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
56-23-5	Carbon tetrachloride	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 18:27	SS
108-90-7	Chlorobenzene	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 18:27	SS
75-00-3	Chloroethane	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 18:27	SS
67-66-3	Chloroform	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 18:27	SS
74-87-3	Chloromethane	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 18:27	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:27	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:27	SS
110-82-7	Cyclohexane	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 18:27	SS
124-48-1	Dibromochloromethane	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 18:27	SS
74-95-3	Dibromomethane	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 18:27	SS
75-71-8	Dichlorodifluoromethane	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 18:27	SS
100-41-4	Ethyl Benzene	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 18:27	SS
87-68-3	Hexachlorobutadiene	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 18:27	SS
98-82-8	Isopropylbenzene	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 18:27	SS
79-20-9	Methyl acetate	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 18:27	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:27	SS
108-87-2	Methylcyclohexane	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 18:27	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:27	SS
104-51-8	n-Butylbenzene	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 18:27	SS
103-65-1	n-Propylbenzene	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 18:27	SS
95-47-6	o-Xylene	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 18:27	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:27	SS
99-87-6	p-Isopropyltoluene	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 18:27	SS



Sample Information

Client Sample ID: DUPE003

York Sample ID: 19E0591-37

York Project (SDG) No.

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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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:27	SS
100-42-5	Styrene	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 18:27	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:27	SS
98-06-6	tert-Butylbenzene	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 18:27	SS
127-18-4	Tetrachloroethylene	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 18:27	SS
108-88-3	Toluene	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 18:27	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:27	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:27	SS
79-01-6	Trichloroethylene	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 18:27	SS
75-69-4	Trichlorofluoromethane	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 18:27	SS
108-05-4	Vinyl acetate	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 18:27	SS
75-01-4	Vinyl Chloride	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 18:27	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 18:27	SS

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: <i>SURR:</i> <i>1,2-Dichloroethane-d4</i>	102 %	70-130
2037-26-5	Surrogate: <i>SURR:</i> <i>Toluene-d8</i>	102 %	70-130
460-00-4	Surrogate: <i>SURR:</i> <i>p-Bromofluorobenzene</i>	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 19:26	SR
120-82-1	1,2,4-Trichlorobenzene	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
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	05/17/2019 19:26	SR



Sample Information

Client Sample ID: DUPE003

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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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 19:26	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	05/17/2019 19:26	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 19:26	SR
95-95-4	2,4,5-Trichlorophenol	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
88-06-2	2,4,6-Trichlorophenol	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
120-83-2	2,4-Dichlorophenol	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
105-67-9	2,4-Dimethylphenol	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
51-28-5	2,4-Dinitrophenol	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
121-14-2	2,4-Dinitrotoluene	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
606-20-2	2,6-Dinitrotoluene	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
91-58-7	2-Chloronaphthalene	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
95-57-8	2-Chlorophenol	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
91-57-6	2-Methylnaphthalene	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
95-48-7	2-Methylphenol	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
88-74-4	2-Nitroaniline	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
88-75-5	2-Nitrophenol	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
65794-96-9	3- & 4-Methylphenols	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
91-94-1	3,3-Dichlorobenzidine	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
99-09-2	3-Nitroaniline	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
534-52-1	4,6-Dinitro-2-methylphenol	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
101-55-3	4-Bromophenyl phenyl ether	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
59-50-7	4-Chloro-3-methylphenol	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



Sample Information

Client Sample ID: DUPE003

York Sample ID: 19E0591-37

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 19:26	SR
7005-72-3	4-Chlorophenyl phenyl ether	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
100-01-6	4-Nitroaniline	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
100-02-7	4-Nitrophenol	ND		ug/L	5.41	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 19:26	SR
98-86-2	Acetophenone	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 19:26	SR
62-53-3	Aniline	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 19:26	SR
100-52-7	Benzaldehyde	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 19:26	SR
92-87-5	Benzidine	ND		ug/L	5.41	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 19:26	SR
65-85-0	Benzoic acid	ND		ug/L	27.0	54.1	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 19:26	SR
100-51-6	Benzyl alcohol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 19:26	SR
85-68-7	Benzyl butyl phthalate	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
111-91-1	Bis(2-chloroethoxy)methane	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
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.08	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 19:26	SR
108-60-1	Bis(2-chloroisopropyl)ether	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
105-60-2	Caprolactam	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 19:26	SR
86-74-8	Carbazole	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
132-64-9	Dibenzofuran	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
84-66-2	Diethyl phthalate	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
131-11-3	Dimethyl phthalate	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
84-74-2	Di-n-butyl phthalate	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
117-84-0	Di-n-octyl phthalate	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
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.41	10.8	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 19:26	SR
78-59-1	Isophorone	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



Sample Information

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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



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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

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Naphthalene, Nitrobenzene, N-Nitrosodimethylamine, Pentachlorophenol, Phenanthrene, Pyrene.

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Aldrin, alpha-BHC, alpha-Chlordane, beta-BHC, delta-BHC.



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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 23:46	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	05/17/2019 23:46	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	05/17/2019 23:46	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	05/17/2019 23:46	CM
72-20-8	Endrin	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 23:46	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	05/17/2019 23:46	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	05/17/2019 23:46	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	05/17/2019 23:46	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	05/17/2019 23:46	CM
76-44-8	Heptachlor	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 23:46	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	05/17/2019 23:46	CM
72-43-5	Methoxychlor	ND		ug/L	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 23:46	CM
8001-35-2	Toxaphene	ND		ug/L	0.111	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/17/2019 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: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 14:12	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 14:12	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 14:12	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 14:12	SR



Sample Information

Client Sample ID: DUPE003

York Sample ID: 19E0591-37

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 12:00 am	<u>Date Received</u> 05/13/2019
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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 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 13:49	BML
7440-38-2	Arsenic	3.97		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 13:49	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 13:49	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 13:49	BML
7782-49-2	Selenium	27.5		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 13:49	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 13:49	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 15:31	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 15:31	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 15:31	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 15:31	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 15:31	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 15:31	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 13:19	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 11:44	SY



Sample Information

Client Sample ID: SB009 (8-10) E

York Sample ID: 19E0591-38

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 11:35 am	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/17/2019 07:30	05/17/2019 13:48	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	05/17/2019 07:30	05/17/2019 13:48	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
95-63-6	1,2,4-Trimethylbenzene	160		mg/kg dry	2.8	5.6	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 14:13	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
108-67-8	1,3,5-Trimethylbenzene	63		mg/kg dry	2.8	5.6	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 14:13	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
123-91-1	1,4-Dioxane	ND		mg/kg dry	14	28	250	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	05/17/2019 07:30	05/17/2019 13:48	SS



Sample Information

Client Sample ID: SB009 (8-10) E

York Sample ID: 19E0591-38

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 11:35 am	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-93-3	2-Butanone	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
591-78-6	2-Hexanone	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
67-64-1	Acetone	ND		mg/kg dry	1.4	2.8	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
107-02-8	Acrolein	ND		mg/kg dry	1.4	2.8	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
71-43-2	Benzene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
108-86-1	Bromobenzene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
75-25-2	Bromoform	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
74-83-9	Bromomethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
67-66-3	Chloroform	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
74-87-3	Chloromethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
110-82-7	Cyclohexane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS



Sample Information

Client Sample ID: SB009 (8-10) E

York Sample ID: 19E0591-38

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 11:35 am	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
74-95-3	Dibromomethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
100-41-4	Ethyl Benzene	1.1	J	mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
98-82-8	Isopropylbenzene	13		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
79-20-9	Methyl acetate	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
108-87-2	Methylcyclohexane	4.2		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
75-09-2	Methylene chloride	ND		mg/kg dry	1.4	2.8	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
104-51-8	n-Butylbenzene	17		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
103-65-1	n-Propylbenzene	33		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
95-47-6	o-Xylene	0.81	J	mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	1.4	2.8	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
99-87-6	p-Isopropyltoluene	19		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
135-98-8	sec-Butylbenzene	24		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
100-42-5	Styrene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.70	7.0	250	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
98-06-6	tert-Butylbenzene	2.0		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
108-88-3	Toluene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.70	1.4	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/17/2019 07:30	05/17/2019 13:48	SS



Sample Information

Client Sample ID: SB009 (8-10) E

York Sample ID: 19E0591-38

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 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

Main table for Volatiles, 8260 Comprehensive. Columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for Trichloroethylene, Trichlorofluoromethane, Vinyl acetate, Vinyl Chloride, Xylenes, Total, and Surrogate Recoveries.

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table for Total Solids. Columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Value: 90.7 % Solids.

Sample Information

Client Sample ID: SB009 (8-10) N

York Sample ID: 19E0591-39

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 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

Main table for Volatiles, 8260 Comprehensive. Columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane.



Sample Information

Client Sample ID: SB009 (8-10) N

York Sample ID: 19E0591-39

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 11:30 am	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 19:44	RDS
79-00-5	1,1,2-Trichloroethane	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
75-34-3	1,1-Dichloroethane	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
75-35-4	1,1-Dichloroethylene	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
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 19:44	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS
95-63-6	1,2,4-Trimethylbenzene	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
96-12-8	1,2-Dibromo-3-chloropropane	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
106-93-4	1,2-Dibromoethane	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
95-50-1	1,2-Dichlorobenzene	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
107-06-2	1,2-Dichloroethane	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
78-87-5	1,2-Dichloropropane	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
108-67-8	1,3,5-Trimethylbenzene	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
541-73-1	1,3-Dichlorobenzene	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
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS
106-46-7	1,4-Dichlorobenzene	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
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.065	0.13	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 19:44	RDS
78-93-3	2-Butanone	0.0088	CCV-E	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
95-49-8	2-Chlorotoluene	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
591-78-6	2-Hexanone	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



Sample Information

Client Sample ID: SB009 (8-10) N

York Sample ID: 19E0591-39

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 11:30 am	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-43-4	4-Chlorotoluene	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
108-10-1	4-Methyl-2-pentanone	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
67-64-1	Acetone	0.037	CCV-E	mg/kg dry	0.0065	0.013	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS
107-02-8	Acrolein	ND		mg/kg dry	0.0065	0.013	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS
107-13-1	Acrylonitrile	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
71-43-2	Benzene	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
108-86-1	Bromobenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS
75-27-4	Bromodichloromethane	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
75-25-2	Bromoform	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
74-83-9	Bromomethane	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
75-15-0	Carbon disulfide	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
56-23-5	Carbon tetrachloride	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
108-90-7	Chlorobenzene	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
75-00-3	Chloroethane	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
67-66-3	Chloroform	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
74-87-3	Chloromethane	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
156-59-2	cis-1,2-Dichloroethylene	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
10061-01-5	cis-1,3-Dichloropropylene	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
110-82-7	Cyclohexane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS
74-95-3	Dibromomethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS



Sample Information

Client Sample ID: SB009 (8-10) N

York Sample ID: 19E0591-39

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 11:30 am	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS
98-82-8	Isopropylbenzene	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
79-20-9	Methyl acetate	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	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
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS
75-09-2	Methylene chloride	ND		mg/kg dry	0.0065	0.013	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS
104-51-8	n-Butylbenzene	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
103-65-1	n-Propylbenzene	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
95-47-6	o-Xylene	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
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0065	0.013	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS
99-87-6	p-Isopropyltoluene	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
135-98-8	sec-Butylbenzene	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
100-42-5	Styrene	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
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0033	0.033	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS
98-06-6	tert-Butylbenzene	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
127-18-4	Tetrachloroethylene	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
108-88-3	Toluene	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
156-60-5	trans-1,2-Dichloroethylene	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
10061-02-6	trans-1,3-Dichloropropylene	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
79-01-6	Trichloroethylene	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
75-69-4	Trichlorofluoromethane	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
108-05-4	Vinyl acetate	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:44	RDS



Sample Information

Client Sample ID: SB009 (8-10) N

York Sample ID: 19E0591-39

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 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

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for Vinyl Chloride, Xylenes, Total, and Surrogate Recoveries.

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes row for % Solids.

Sample Information

Client Sample ID: SB009 (8-10) W

York Sample ID: 19E0591-40

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 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

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane.



Sample Information

Client Sample ID: SB009 (8-10) W

York Sample ID: 19E0591-40

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 12:30 pm	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	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
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 20:11	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
95-63-6	1,2,4-Trimethylbenzene	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
96-12-8	1,2-Dibromo-3-chloropropane	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
106-93-4	1,2-Dibromoethane	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
95-50-1	1,2-Dichlorobenzene	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
107-06-2	1,2-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
78-87-5	1,2-Dichloropropane	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
108-67-8	1,3,5-Trimethylbenzene	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
541-73-1	1,3-Dichlorobenzene	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
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
106-46-7	1,4-Dichlorobenzene	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
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.068	0.14	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 20:11	RDS
78-93-3	2-Butanone	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
95-49-8	2-Chlorotoluene	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
591-78-6	2-Hexanone	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
106-43-4	4-Chlorotoluene	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
108-10-1	4-Methyl-2-pentanone	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
67-64-1	Acetone	0.0074	CCV-E, J	mg/kg dry	0.0068	0.014	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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 12:30 pm	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-02-8	Acrolein	ND		mg/kg dry	0.0068	0.014	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
107-13-1	Acrylonitrile	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
71-43-2	Benzene	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
108-86-1	Bromobenzene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
75-27-4	Bromodichloromethane	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
75-25-2	Bromoform	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
74-83-9	Bromomethane	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
75-15-0	Carbon disulfide	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
56-23-5	Carbon tetrachloride	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
108-90-7	Chlorobenzene	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
75-00-3	Chloroethane	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
67-66-3	Chloroform	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
74-87-3	Chloromethane	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
156-59-2	cis-1,2-Dichloroethylene	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
10061-01-5	cis-1,3-Dichloropropylene	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
110-82-7	Cyclohexane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
74-95-3	Dibromomethane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
100-41-4	Ethyl Benzene	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
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
98-82-8	Isopropylbenzene	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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 10, 2019 12:30 pm	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
104-51-8	n-Butylbenzene	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
103-65-1	n-Propylbenzene	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
95-47-6	o-Xylene	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
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0068	0.014	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
99-87-6	p-Isopropyltoluene	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
135-98-8	sec-Butylbenzene	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
100-42-5	Styrene	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
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0034	0.034	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
98-06-6	tert-Butylbenzene	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
127-18-4	Tetrachloroethylene	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
108-88-3	Toluene	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
156-60-5	trans-1,2-Dichloroethylene	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
10061-02-6	trans-1,3-Dichloropropylene	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
79-01-6	Trichloroethylene	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
75-69-4	Trichlorofluoromethane	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
108-05-4	Vinyl acetate	ND		mg/kg dry	0.0034	0.0068	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:11	RDS
75-01-4	Vinyl Chloride	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
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.010	0.020	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 20:11	RDS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	99.1 %	77-125								



Sample Information

Client Sample ID: SB009 (8-10) W

York Sample ID: 19E0591-40

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 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

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows for 2037-26-5 and 460-00-4.

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row for % Solids.

Sample Information

Client Sample ID: FB001

York Sample ID: 19E0591-41

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 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

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Multiple rows for various compounds like Tetrachloroethane, Trichloroethane, etc.



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: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:58	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:58	SS
106-93-4	1,2-Dibromoethane	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
95-50-1	1,2-Dichlorobenzene	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
107-06-2	1,2-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
78-87-5	1,2-Dichloropropane	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
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:58	SS
541-73-1	1,3-Dichlorobenzene	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
142-28-9	1,3-Dichloropropane	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
106-46-7	1,4-Dichlorobenzene	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
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:58	SS
594-20-7	2,2-Dichloropropane	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
78-93-3	2-Butanone	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
95-49-8	2-Chlorotoluene	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
591-78-6	2-Hexanone	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
106-43-4	4-Chlorotoluene	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
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:58	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:58	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:58	SS
107-13-1	Acrylonitrile	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
71-43-2	Benzene	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
108-86-1	Bromobenzene	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
74-97-5	Bromochloromethane	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
75-27-4	Bromodichloromethane	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
75-25-2	Bromoform	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
74-83-9	Bromomethane	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
75-15-0	Carbon disulfide	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
56-23-5	Carbon tetrachloride	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
108-90-7	Chlorobenzene	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
75-00-3	Chloroethane	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
67-66-3	Chloroform	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
74-87-3	Chloromethane	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
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:58	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:58	SS
110-82-7	Cyclohexane	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
124-48-1	Dibromochloromethane	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
74-95-3	Dibromomethane	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
75-71-8	Dichlorodifluoromethane	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
100-41-4	Ethyl Benzene	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
87-68-3	Hexachlorobutadiene	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
98-82-8	Isopropylbenzene	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
79-20-9	Methyl acetate	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
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:58	SS
108-87-2	Methylcyclohexane	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
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,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
104-51-8	n-Butylbenzene	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
103-65-1	n-Propylbenzene	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
95-47-6	o-Xylene	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
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:58	SS
99-87-6	p-Isopropyltoluene	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
135-98-8	sec-Butylbenzene	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
100-42-5	Styrene	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
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:58	SS
98-06-6	tert-Butylbenzene	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
127-18-4	Tetrachloroethylene	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
108-88-3	Toluene	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
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:58	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 18:58	SS
79-01-6	Trichloroethylene	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
75-69-4	Trichlorofluoromethane	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
108-05-4	Vinyl acetate	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
75-01-4	Vinyl Chloride	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
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 18:58	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	105 %	70-130
2037-26-5	Surrogate: SURRE: Toluene-d8	102 %	70-130
460-00-4	Surrogate: SURRE: 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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 12:00 am	<u>Date Received</u> 05/13/2019
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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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	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 20:13	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 20:13	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 20:13	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 20:13	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 20:13	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 20:13	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 20:13	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 20:13	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 20:13	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 20:13	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 20:13	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 20:13	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 20:13	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 20:13	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 20:13	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 20:13	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 20:13	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 20:13	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 20:13	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 20:13	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 20:13	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 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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
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	05/17/2019 20:13	SR
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	05/17/2019 20:13	SR
106-47-8	4-Chloroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
100-01-6	4-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 20:13	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.71	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
98-86-2	Acetophenone	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
62-53-3	Aniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
100-52-7	Benzaldehyde	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
92-87-5	Benzidine	ND		ug/L	5.71	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
65-85-0	Benzoic acid	ND		ug/L	28.6	57.1	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
100-51-6	Benzyl alcohol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.14	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
105-60-2	Caprolactam	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
86-74-8	Carbazole	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
132-64-9	Dibenzofuran	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR



Sample Information

Client Sample ID: FB001

York Sample ID: 19E0591-41

York Project (SDG) No.

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.71	11.4	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
78-59-1	Isophorone	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 20:13	SR
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	05/17/2019 20:13	SR
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	05/17/2019 20:13	SR
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	05/17/2019 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

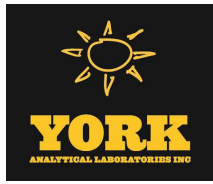
Semi-Volatiles, 8270 Comprehensive

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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 19:16	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 19:16	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 19:16	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 19:16	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 19:16	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 19:16	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 19:16	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 19:16	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 19:16	KH



Sample Information

Client Sample ID: FB001

York Sample ID: 19E0591-41

York Project (SDG) No.

Client Project ID

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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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 12:00 am	<u>Date Received</u> 05/13/2019
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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 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:44	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 13:44	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 13:44	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 13:44	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 13:44	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 11:04	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 11:04	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 11:04	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 11:04	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 11:04	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 11:04	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 11:04	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 11:04	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 11:04	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 11:04	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 11:04	KML
7440-09-7	Potassium	0.216		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:04	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 11:04	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 11:04	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 11:04	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 11:04	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, 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 14:04	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 14:04	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 14:04	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 14:04	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 14:04	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 14:04	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:36	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 15:36	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 15:36	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 15:36	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 15:36	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 15:36	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 09:41	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 10:01	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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:31	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 19:31	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 19:31	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 19:31	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 19:31	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 19:31	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 19:31	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 19:31	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 19:31	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 19:31	SS
120-82-1	1,2,4-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 19:31	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:31	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:31	SS
106-93-4	1,2-Dibromoethane	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 19:31	SS
95-50-1	1,2-Dichlorobenzene	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 19:31	SS
107-06-2	1,2-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 19:31	SS
78-87-5	1,2-Dichloropropane	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 19:31	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:31	SS
541-73-1	1,3-Dichlorobenzene	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 19:31	SS
142-28-9	1,3-Dichloropropane	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 19:31	SS
106-46-7	1,4-Dichlorobenzene	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 19:31	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:31	SS
594-20-7	2,2-Dichloropropane	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 19:31	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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:31	SS
95-49-8	2-Chlorotoluene	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 19:31	SS
591-78-6	2-Hexanone	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 19:31	SS
106-43-4	4-Chlorotoluene	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 19:31	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:31	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:31	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:31	SS
107-13-1	Acrylonitrile	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 19:31	SS
71-43-2	Benzene	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 19:31	SS
108-86-1	Bromobenzene	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 19:31	SS
74-97-5	Bromochloromethane	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 19:31	SS
75-27-4	Bromodichloromethane	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 19:31	SS
75-25-2	Bromoform	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 19:31	SS
74-83-9	Bromomethane	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 19:31	SS
75-15-0	Carbon disulfide	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 19:31	SS
56-23-5	Carbon tetrachloride	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 19:31	SS
108-90-7	Chlorobenzene	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 19:31	SS
75-00-3	Chloroethane	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 19:31	SS
67-66-3	Chloroform	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 19:31	SS
74-87-3	Chloromethane	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 19:31	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:31	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:31	SS
110-82-7	Cyclohexane	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 19:31	SS



Sample Information

Client Sample ID: EB001

York Sample ID: 19E0591-42

York Project (SDG) No.

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Matrix

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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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:31	SS
74-95-3	Dibromomethane	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 19:31	SS
75-71-8	Dichlorodifluoromethane	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 19:31	SS
100-41-4	Ethyl Benzene	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 19:31	SS
87-68-3	Hexachlorobutadiene	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 19:31	SS
98-82-8	Isopropylbenzene	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 19:31	SS
79-20-9	Methyl acetate	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 19:31	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:31	SS
108-87-2	Methylcyclohexane	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 19:31	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:31	SS
104-51-8	n-Butylbenzene	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 19:31	SS
103-65-1	n-Propylbenzene	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 19:31	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 07:30	05/16/2019 19:31	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 07:30	05/16/2019 19:31	SS
99-87-6	p-Isopropyltoluene	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 19:31	SS
135-98-8	sec-Butylbenzene	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 19:31	SS
100-42-5	Styrene	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 19:31	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:31	SS
98-06-6	tert-Butylbenzene	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 19:31	SS
127-18-4	Tetrachloroethylene	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 19:31	SS
108-88-3	Toluene	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 19:31	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:31	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:31	SS



Sample Information

Client Sample ID: EB001

York Sample ID: 19E0591-42

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 19:31	SS
75-69-4	Trichlorofluoromethane	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 19:31	SS
108-05-4	Vinyl acetate	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 19:31	SS
75-01-4	Vinyl Chloride	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 19:31	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 19:31	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: <i>SURR: 1,2-Dichloroethane-d4</i>	104 %			70-130						
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	102 %			70-130						
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR



Sample Information

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
95-57-8	2-Chlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
95-48-7	2-Methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
88-74-4	2-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
99-09-2	3-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
106-47-8	4-Chloroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
100-01-6	4-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
98-86-2	Acetophenone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
62-53-3	Aniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
100-52-7	Benzaldehyde	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
92-87-5	Benzidine	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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
65-85-0	Benzoic acid	ND		ug/L	27.8	55.6	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
100-51-6	Benzyl alcohol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.11	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
105-60-2	Caprolactam	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
86-74-8	Carbazole	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
132-64-9	Dibenzofuran	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.56	11.1	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
78-59-1	Isophorone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
108-95-2	Phenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:01	SR
110-86-1	Pyridine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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

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York Project (SDG) No.

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:34	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:34	CM
50-29-3	4,4'-DDT	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:34	CM
309-00-2	Aldrin	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:34	CM
319-84-6	alpha-BHC	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:34	CM
5103-71-9	alpha-Chlordane	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:34	CM
319-85-7	beta-BHC	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:34	CM
319-86-8	delta-BHC	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:34	CM
60-57-1	Dieldrin	ND		ug/L	0.00216	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:34	CM
959-98-8	Endosulfan I	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:34	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:34	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:34	CM
72-20-8	Endrin	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:34	CM
7421-93-4	Endrin aldehyde	ND		ug/L	0.0108	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:34	CM
53494-70-5	Endrin ketone	ND		ug/L	0.0108	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:34	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:34	CM
5566-34-7	gamma-Chlordane	ND		ug/L	0.0108	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:34	CM
76-44-8	Heptachlor	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:34	CM
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:34	CM
72-43-5	Methoxychlor	ND		ug/L	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 09:34	CM
8001-35-2	Toxaphene	ND		ug/L	0.108	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 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

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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

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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:46	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 13:46	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 13:46	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 13:46	KML
7440-09-7	Potassium	104		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:46	KML
7440-22-4	Silver	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:46	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 13:46	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 13:46	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 13:46	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:12	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 11:12	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 11:12	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 11:12	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 11:12	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 11:12	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 11:12	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 11:12	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 11:12	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 11:12	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 11:12	KML
7440-09-7	Potassium	0.0719		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:12	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 11:12	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 11:12	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 11:12	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 14:09	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 14:09	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 14:09	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 14:09	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 14:09	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 14:09	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:40	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 15:40	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 15:40	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 15:40	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 15:40	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 15:40	BML

Mercury by 7473

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: EB001

York Sample ID: 19E0591-42

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 12:00 am	<u>Date Received</u> 05/13/2019
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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 13:41	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 12:28	SY

Sample Information

Client Sample ID: FB002

York Sample ID: 19E0591-43

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 12:00 am	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:03	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 20:03	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 20:03	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 20:03	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 20:03	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 20:03	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 20:03	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 20:03	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 20:03	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 20:03	SS
120-82-1	1,2,4-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 20:03	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:03	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
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:03	SS
106-93-4	1,2-Dibromoethane	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 20:03	SS
95-50-1	1,2-Dichlorobenzene	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 20:03	SS
107-06-2	1,2-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 20:03	SS
78-87-5	1,2-Dichloropropane	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 20:03	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:03	SS
541-73-1	1,3-Dichlorobenzene	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 20:03	SS
142-28-9	1,3-Dichloropropane	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 20:03	SS
106-46-7	1,4-Dichlorobenzene	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 20:03	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:03	SS
594-20-7	2,2-Dichloropropane	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 20:03	SS
78-93-3	2-Butanone	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 20:03	SS
95-49-8	2-Chlorotoluene	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 20:03	SS
591-78-6	2-Hexanone	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 20:03	SS
106-43-4	4-Chlorotoluene	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 20:03	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:03	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:03	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:03	SS
107-13-1	Acrylonitrile	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 20:03	SS
71-43-2	Benzene	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 20:03	SS
108-86-1	Bromobenzene	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 20:03	SS
74-97-5	Bromochloromethane	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 20:03	SS
75-27-4	Bromodichloromethane	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 20:03	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
75-25-2	Bromoform	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 20:03	SS
74-83-9	Bromomethane	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 20:03	SS
75-15-0	Carbon disulfide	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 20:03	SS
56-23-5	Carbon tetrachloride	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 20:03	SS
108-90-7	Chlorobenzene	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 20:03	SS
75-00-3	Chloroethane	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 20:03	SS
67-66-3	Chloroform	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 20:03	SS
74-87-3	Chloromethane	0.440	J	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 20:03	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:03	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:03	SS
110-82-7	Cyclohexane	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 20:03	SS
124-48-1	Dibromochloromethane	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 20:03	SS
74-95-3	Dibromomethane	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 20:03	SS
75-71-8	Dichlorodifluoromethane	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 20:03	SS
100-41-4	Ethyl Benzene	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 20:03	SS
87-68-3	Hexachlorobutadiene	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 20:03	SS
98-82-8	Isopropylbenzene	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 20:03	SS
79-20-9	Methyl acetate	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 20:03	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:03	SS
108-87-2	Methylcyclohexane	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 20:03	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:03	SS
104-51-8	n-Butylbenzene	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 20:03	SS
103-65-1	n-Propylbenzene	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 20:03	SS



Sample Information

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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: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 07:30	05/16/2019 20:03	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 07:30	05/16/2019 20:03	SS
99-87-6	p-Isopropyltoluene	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 20:03	SS
135-98-8	sec-Butylbenzene	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 20:03	SS
100-42-5	Styrene	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 20:03	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:03	SS
98-06-6	tert-Butylbenzene	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 20:03	SS
127-18-4	Tetrachloroethylene	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 20:03	SS
108-88-3	Toluene	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 20:03	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:03	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:03	SS
79-01-6	Trichloroethylene	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 20:03	SS
75-69-4	Trichlorofluoromethane	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 20:03	SS
108-05-4	Vinyl acetate	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 20:03	SS
75-01-4	Vinyl Chloride	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 20:03	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 20:03	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	106 %			70-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	104 %			70-130						
460-00-4	Surrogate: SURRE: 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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR



Sample Information

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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

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
101-55-3	4-Bromophenyl phenyl ether	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
59-50-7	4-Chloro-3-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
106-47-8	4-Chloroaniline	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
7005-72-3	4-Chlorophenyl phenyl ether	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
100-01-6	4-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
100-02-7	4-Nitrophenol	ND		ug/L	7.14	7.14	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
98-86-2	Acetophenone	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
62-53-3	Aniline	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
100-52-7	Benzaldehyde	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
92-87-5	Benzidine	ND		ug/L	7.14	7.14	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
65-85-0	Benzoic acid	ND		ug/L	35.7	71.4	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
100-51-6	Benzyl alcohol	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
85-68-7	Benzyl butyl phthalate	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
111-91-1	Bis(2-chloroethoxy)methane	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
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.43	7.14	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
108-60-1	Bis(2-chloroisopropyl)ether	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
105-60-2	Caprolactam	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
86-74-8	Carbazole	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
132-64-9	Dibenzofuran	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
84-66-2	Diethyl phthalate	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
131-11-3	Dimethyl phthalate	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
84-74-2	Di-n-butyl phthalate	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



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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	7.14	14.3	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 21:48	SR
78-59-1	Isophorone	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
621-64-7	N-nitroso-di-n-propylamine	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
86-30-6	N-Nitrosodiphenylamine	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
108-95-2	Phenol	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
110-86-1	Pyridine	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
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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 20:19	KH
208-96-8	Acenaphthylene	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
120-12-7	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
1912-24-9	Atrazine	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
56-55-3	Benzo(a)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
50-32-8	Benzo(a)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
205-99-2	Benzo(b)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
191-24-2	Benzo(g,h,i)perylene	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
207-08-9	Benzo(k)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



Sample Information

Client Sample ID: FB002

York Sample ID: 19E0591-43

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Collection Date/Time

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Water

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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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

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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

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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

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Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 14:14	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 14:14	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 14:14	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 14:14	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 14:14	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 14:14	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 15:45	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 15:45	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 15:45	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 15:45	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 15:45	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 15:45	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 09:41	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/21/2019 10:01	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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:35	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 20:35	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 20:35	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 20:35	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 20:35	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 20:35	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 20:35	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 20:35	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 20:35	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 20:35	SS
120-82-1	1,2,4-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 20:35	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:35	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:35	SS
106-93-4	1,2-Dibromoethane	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 20:35	SS
95-50-1	1,2-Dichlorobenzene	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 20:35	SS
107-06-2	1,2-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 20:35	SS
78-87-5	1,2-Dichloropropane	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 20:35	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:35	SS
541-73-1	1,3-Dichlorobenzene	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 20:35	SS
142-28-9	1,3-Dichloropropane	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 20:35	SS
106-46-7	1,4-Dichlorobenzene	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 20:35	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:35	SS
594-20-7	2,2-Dichloropropane	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 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
78-93-3	2-Butanone	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 20:35	SS
95-49-8	2-Chlorotoluene	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 20:35	SS
591-78-6	2-Hexanone	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 20:35	SS
106-43-4	4-Chlorotoluene	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 20:35	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:35	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:35	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:35	SS
107-13-1	Acrylonitrile	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 20:35	SS
71-43-2	Benzene	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 20:35	SS
108-86-1	Bromobenzene	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 20:35	SS
74-97-5	Bromochloromethane	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 20:35	SS
75-27-4	Bromodichloromethane	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 20:35	SS
75-25-2	Bromoform	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 20:35	SS
74-83-9	Bromomethane	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 20:35	SS
75-15-0	Carbon disulfide	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 20:35	SS
56-23-5	Carbon tetrachloride	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 20:35	SS
108-90-7	Chlorobenzene	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 20:35	SS
75-00-3	Chloroethane	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 20:35	SS
67-66-3	Chloroform	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 20:35	SS
74-87-3	Chloromethane	0.280	J	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 20:35	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:35	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:35	SS
110-82-7	Cyclohexane	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 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
124-48-1	Dibromochloromethane	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 20:35	SS
74-95-3	Dibromomethane	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 20:35	SS
75-71-8	Dichlorodifluoromethane	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 20:35	SS
100-41-4	Ethyl Benzene	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 20:35	SS
87-68-3	Hexachlorobutadiene	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 20:35	SS
98-82-8	Isopropylbenzene	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 20:35	SS
79-20-9	Methyl acetate	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 20:35	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:35	SS
108-87-2	Methylcyclohexane	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 20:35	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:35	SS
104-51-8	n-Butylbenzene	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 20:35	SS
103-65-1	n-Propylbenzene	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 20:35	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 07:30	05/16/2019 20:35	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 07:30	05/16/2019 20:35	SS
99-87-6	p-Isopropyltoluene	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 20:35	SS
135-98-8	sec-Butylbenzene	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 20:35	SS
100-42-5	Styrene	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 20:35	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:35	SS
98-06-6	tert-Butylbenzene	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 20:35	SS
127-18-4	Tetrachloroethylene	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 20:35	SS
108-88-3	Toluene	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 20:35	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:35	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 20:35	SS
75-69-4	Trichlorofluoromethane	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 20:35	SS
108-05-4	Vinyl acetate	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 20:35	SS
75-01-4	Vinyl Chloride	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 20:35	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	05/16/2019 15:13	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR



Sample Information

Client Sample ID: EB002

York Sample ID: 19E0591-44

York Project (SDG) No.

Client Project ID

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
95-57-8	2-Chlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
95-48-7	2-Methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
88-74-4	2-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
99-09-2	3-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
106-47-8	4-Chloroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
100-01-6	4-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
98-86-2	Acetophenone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
62-53-3	Aniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
100-52-7	Benzaldehyde	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
92-87-5	Benzidine	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR



Sample Information

Client Sample ID: EB002

York Sample ID: 19E0591-44

York Project (SDG) No.

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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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
100-51-6	Benzyl alcohol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.11	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
105-60-2	Caprolactam	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
86-74-8	Carbazole	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
132-64-9	Dibenzofuran	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.56	11.1	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
78-59-1	Isophorone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
108-95-2	Phenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 22:37	SR
110-86-1	Pyridine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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

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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

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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

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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:51	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 13:51	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 13:51	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 13:51	KML
7440-09-7	Potassium	59.7		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:51	KML
7440-22-4	Silver	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:51	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 13:51	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 13:51	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 13:51	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:17	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 11:17	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 11:17	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 11:17	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 11:17	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 11:17	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 11:17	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 11:17	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 11:17	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 11:17	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 11:17	KML
7440-09-7	Potassium	0.104		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	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

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 19E0591, LST 1802, Water, May 10, 2019 12:00 am, 05/13/2019

Sample Prepared by Method: EPA 7473 water

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7439-97-6 Mercury ND ug/L 0.20 1 EPA 7473 05/16/2019 09:41 05/16/2019 14:03 SY

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7439-97-6 Mercury ND mg/L 0.0002000 1 EPA 7473 05/21/2019 10:01 05/21/2019 12:49 SY

Sample Information

Client Sample ID: FB003

York Sample ID: 19E0591-45

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 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

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Multiple rows for various compounds like 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, etc.



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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:06	SS
106-93-4	1,2-Dibromoethane	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 21:06	SS
95-50-1	1,2-Dichlorobenzene	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 21:06	SS
107-06-2	1,2-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 21:06	SS
78-87-5	1,2-Dichloropropane	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 21:06	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:06	SS
541-73-1	1,3-Dichlorobenzene	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 21:06	SS
142-28-9	1,3-Dichloropropane	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 21:06	SS
106-46-7	1,4-Dichlorobenzene	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 21:06	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:06	SS
594-20-7	2,2-Dichloropropane	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 21:06	SS
78-93-3	2-Butanone	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 21:06	SS
95-49-8	2-Chlorotoluene	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 21:06	SS
591-78-6	2-Hexanone	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 21:06	SS
106-43-4	4-Chlorotoluene	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 21:06	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:06	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:06	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:06	SS
107-13-1	Acrylonitrile	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 21:06	SS
71-43-2	Benzene	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 21:06	SS
108-86-1	Bromobenzene	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 21:06	SS
74-97-5	Bromochloromethane	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 21:06	SS
75-27-4	Bromodichloromethane	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 21:06	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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:06	SS
74-83-9	Bromomethane	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 21:06	SS
75-15-0	Carbon disulfide	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 21:06	SS
56-23-5	Carbon tetrachloride	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 21:06	SS
108-90-7	Chlorobenzene	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 21:06	SS
75-00-3	Chloroethane	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 21:06	SS
67-66-3	Chloroform	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 21:06	SS
74-87-3	Chloromethane	0.400	J	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 21:06	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:06	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:06	SS
110-82-7	Cyclohexane	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 21:06	SS
124-48-1	Dibromochloromethane	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 21:06	SS
74-95-3	Dibromomethane	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 21:06	SS
75-71-8	Dichlorodifluoromethane	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 21:06	SS
100-41-4	Ethyl Benzene	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 21:06	SS
87-68-3	Hexachlorobutadiene	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 21:06	SS
98-82-8	Isopropylbenzene	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 21:06	SS
79-20-9	Methyl acetate	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 21:06	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:06	SS
108-87-2	Methylcyclohexane	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 21:06	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:06	SS
104-51-8	n-Butylbenzene	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 21:06	SS
103-65-1	n-Propylbenzene	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 21:06	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: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 07:30	05/16/2019 21:06	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 07:30	05/16/2019 21:06	SS
99-87-6	p-Isopropyltoluene	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 21:06	SS
135-98-8	sec-Butylbenzene	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 21:06	SS
100-42-5	Styrene	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 21:06	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:06	SS
98-06-6	tert-Butylbenzene	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 21:06	SS
127-18-4	Tetrachloroethylene	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 21:06	SS
108-88-3	Toluene	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 21:06	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:06	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:06	SS
79-01-6	Trichloroethylene	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 21:06	SS
75-69-4	Trichlorofluoromethane	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 21:06	SS
108-05-4	Vinyl acetate	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 21:06	SS
75-01-4	Vinyl Chloride	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 21:06	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 21:06	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	109 %			70-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	104 %			70-130						
460-00-4	Surrogate: SURRE: 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: 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
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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
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	05/17/2019 23:24	SR
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	05/17/2019 23:24	SR
106-47-8	4-Chloroaniline	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
7005-72-3	4-Chlorophenyl phenyl ether	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
100-01-6	4-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
100-02-7	4-Nitrophenol	ND		ug/L	5.71	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
98-86-2	Acetophenone	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
62-53-3	Aniline	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
100-52-7	Benzaldehyde	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
92-87-5	Benzidine	ND		ug/L	5.71	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
65-85-0	Benzoic acid	ND		ug/L	28.6	57.1	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
100-51-6	Benzyl alcohol	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
85-68-7	Benzyl butyl phthalate	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
111-91-1	Bis(2-chloroethoxy)methane	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
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.14	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
108-60-1	Bis(2-chloroisopropyl)ether	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
105-60-2	Caprolactam	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
86-74-8	Carbazole	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
132-64-9	Dibenzofuran	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
84-66-2	Diethyl phthalate	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
131-11-3	Dimethyl phthalate	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
84-74-2	Di-n-butyl phthalate	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

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.71	11.4	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/17/2019 23:24	SR
78-59-1	Isophorone	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
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	05/17/2019 23:24	SR
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	05/17/2019 23:24	SR
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	05/17/2019 23:24	SR
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	05/17/2019 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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 21:22	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 21:22	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 21:22	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 21:22	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 21:22	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 21:22	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 21:22	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 21:22	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 21:22	KH



Sample Information

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Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-81-7	Bis(2-ethylhexyl)phthalate	0.857		ug/L	0.571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	05/16/2019 15:13	05/29/2019 21:22	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 21:22	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 21:22	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 21:22	KH
86-73-7	Fluorene	ND		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 21:22	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 21:22	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 21:22	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 21:22	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 21:22	KH
91-20-3	Naphthalene	0.0800		ug/L	0.0571	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/29/2019 21:22	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 21:22	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 21:22	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 21:22	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 21:22	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 21:22	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	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:20	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:20	CM
50-29-3	4,4'-DDT	ND		ug/L	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:20	CM
309-00-2	Aldrin	ND		ug/L	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:20	CM
319-84-6	alpha-BHC	ND		ug/L	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:20	CM



Sample Information

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:20	CM
319-85-7	beta-BHC	ND		ug/L	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:20	CM
319-86-8	delta-BHC	ND		ug/L	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:20	CM
60-57-1	Dieldrin	ND		ug/L	0.00211	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:20	CM
959-98-8	Endosulfan I	ND		ug/L	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:20	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:20	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:20	CM
72-20-8	Endrin	ND		ug/L	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:20	CM
7421-93-4	Endrin aldehyde	ND		ug/L	0.0105	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:20	CM
53494-70-5	Endrin ketone	ND		ug/L	0.0105	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:20	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:20	CM
5566-34-7	gamma-Chlordane	ND		ug/L	0.0105	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:20	CM
76-44-8	Heptachlor	ND		ug/L	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:20	CM
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:20	CM
72-43-5	Methoxychlor	ND		ug/L	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:20	CM
8001-35-2	Toxaphene	ND		ug/L	0.105	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	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: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 15:20	SR



Sample Information

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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



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Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	100		ug/L	55.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:54	KML
7440-22-4	Silver	ND		ug/L	5.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:54	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 13:54	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 13:54	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 13:54	KML

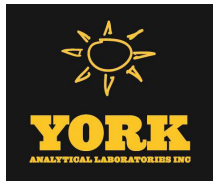
Metals, Target Analyte, ICP Dissolved

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 11:19	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 11:19	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 11:19	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 11:19	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 11:19	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 11:19	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 11:19	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 11:19	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 11:19	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 11:19	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 11:19	KML
7440-09-7	Potassium	0.0786		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:19	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 11:19	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 11:19	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 11:19	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 11:19	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, 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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:38	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 21:38	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 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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:38	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 21:38	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 21:38	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 21:38	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 21:38	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 21:38	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 21:38	SS
120-82-1	1,2,4-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 21:38	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:38	SS
106-93-4	1,2-Dibromoethane	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 21:38	SS
95-50-1	1,2-Dichlorobenzene	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 21:38	SS
107-06-2	1,2-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 21:38	SS
78-87-5	1,2-Dichloropropane	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 21:38	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:38	SS
541-73-1	1,3-Dichlorobenzene	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 21:38	SS
142-28-9	1,3-Dichloropropane	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 21:38	SS
106-46-7	1,4-Dichlorobenzene	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 21:38	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:38	SS
594-20-7	2,2-Dichloropropane	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 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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:38	SS
95-49-8	2-Chlorotoluene	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 21:38	SS
591-78-6	2-Hexanone	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 21:38	SS
106-43-4	4-Chlorotoluene	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 21:38	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:38	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:38	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:38	SS
107-13-1	Acrylonitrile	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 21:38	SS
71-43-2	Benzene	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 21:38	SS
108-86-1	Bromobenzene	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 21:38	SS
74-97-5	Bromochloromethane	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 21:38	SS
75-27-4	Bromodichloromethane	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 21:38	SS
75-25-2	Bromoform	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 21:38	SS
74-83-9	Bromomethane	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 21:38	SS
75-15-0	Carbon disulfide	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 21:38	SS
56-23-5	Carbon tetrachloride	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 21:38	SS
108-90-7	Chlorobenzene	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 21:38	SS
75-00-3	Chloroethane	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 21:38	SS
67-66-3	Chloroform	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 21:38	SS
74-87-3	Chloromethane	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 21:38	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:38	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:38	SS
110-82-7	Cyclohexane	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 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
124-48-1	Dibromochloromethane	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 21:38	SS
74-95-3	Dibromomethane	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 21:38	SS
75-71-8	Dichlorodifluoromethane	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 21:38	SS
100-41-4	Ethyl Benzene	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 21:38	SS
87-68-3	Hexachlorobutadiene	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 21:38	SS
98-82-8	Isopropylbenzene	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 21:38	SS
79-20-9	Methyl acetate	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 21:38	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:38	SS
108-87-2	Methylcyclohexane	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 21:38	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:38	SS
104-51-8	n-Butylbenzene	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 21:38	SS
103-65-1	n-Propylbenzene	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 21:38	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 07:30	05/16/2019 21:38	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 07:30	05/16/2019 21:38	SS
99-87-6	p-Isopropyltoluene	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 21:38	SS
135-98-8	sec-Butylbenzene	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 21:38	SS
100-42-5	Styrene	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 21:38	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:38	SS
98-06-6	tert-Butylbenzene	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 21:38	SS
127-18-4	Tetrachloroethylene	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 21:38	SS
108-88-3	Toluene	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 21:38	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:38	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	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

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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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 21:38	SS
75-69-4	Trichlorofluoromethane	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 21:38	SS
108-05-4	Vinyl acetate	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 21:38	SS
75-01-4	Vinyl Chloride	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 21:38	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 21:38	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: <i>SURR: 1,2-Dichloroethane-d4</i>	106 %			70-130						
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	104 %			70-130						
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	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	05/18/2019 00:12	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	05/18/2019 00:12	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	05/18/2019 00:12	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	05/18/2019 00:12	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	05/18/2019 00:12	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	05/18/2019 00:12	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	05/18/2019 00:12	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	05/18/2019 00:12	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	05/18/2019 00:12	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	05/18/2019 00:12	SR



Sample Information

Client Sample ID: EB003

York Sample ID: 19E0591-46

York Project (SDG) No.

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	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	05/18/2019 00:12	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	05/18/2019 00:12	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	05/18/2019 00:12	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	05/18/2019 00:12	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	05/18/2019 00:12	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	05/18/2019 00:12	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	05/18/2019 00:12	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	05/18/2019 00:12	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	05/18/2019 00:12	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	05/18/2019 00:12	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	05/18/2019 00:12	SR
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	05/18/2019 00:12	SR
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	05/18/2019 00:12	SR
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	05/18/2019 00:12	SR
106-47-8	4-Chloroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
100-01-6	4-Nitroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.71	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
98-86-2	Acetophenone	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
62-53-3	Aniline	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
100-52-7	Benzaldehyde	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
92-87-5	Benzidine	ND		ug/L	5.71	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR



Sample Information

Client Sample ID: EB003

York Sample ID: 19E0591-46

York Project (SDG) No.

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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: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
100-51-6	Benzyl alcohol	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.14	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
105-60-2	Caprolactam	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
86-74-8	Carbazole	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
132-64-9	Dibenzofuran	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.71	11.4	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
78-59-1	Isophorone	ND		ug/L	2.86	5.71	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 15:13	05/18/2019 00:12	SR
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	05/18/2019 00:12	SR
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	05/18/2019 00:12	SR
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	05/18/2019 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

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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

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 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

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Multiple rows for various pesticides like 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Aldrin, alpha-BHC, alpha-Chlordane, beta-BHC, delta-BHC, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Endrin ketone, gamma-BHC (Lindane), gamma-Chlordane, Heptachlor, Heptachlor epoxide.



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

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/16/2019 10:56	05/19/2019 10:35	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 10:35	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: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/16/2019 10:56	05/20/2019 15:34	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 15:34	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 15:34	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 15:34	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 15:34	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 15:34	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 15:34	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:56	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 13:56	KML



Sample Information

Client Sample ID: EB003

York Sample ID: 19E0591-46

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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19E0591

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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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:45	05/16/2019 13:56	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 13:56	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 13:56	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 13:56	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 13:56	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 13:56	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 13:56	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 13:56	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 13:56	KML
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 13:56	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 13:56	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 13:56	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 13:56	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 13:56	KML

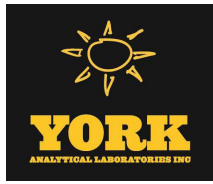
Metals, Target Analyte, ICP Dissolved

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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:22	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 11:22	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 11:22	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 11:22	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 11:22	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 11:22	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 11:22	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:22	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 11:22	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 11:22	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 11:22	KML
7440-09-7	Potassium	0.0872		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:32	05/20/2019 11:22	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 11:22	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 11:22	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 11:22	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 11:22	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/15/2019 13:47	05/16/2019 14:28	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 14:28	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 14:28	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 14:28	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 14:28	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 14:28	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: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/17/2019 16:34	05/20/2019 16:10	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 16:10	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 16:10	BML



Sample Information

Client Sample ID: EB003

York Sample ID: 19E0591-46

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 12:00 am	<u>Date Received</u> 05/13/2019
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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

<u>York Project (SDG) No.</u> 19E0591	<u>Client Project ID</u> LST 1802	<u>Matrix</u> Water	<u>Collection Date/Time</u> May 10, 2019 12:00 am	<u>Date Received</u> 05/13/2019
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	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

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Water

May 10, 2019 12:00 am

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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	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 13:41	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 13:41	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 13:41	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 13:41	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 13:41	SS
120-82-1	1,2,4-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 13:41	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 13:41	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 13:41	SS
106-93-4	1,2-Dibromoethane	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
95-50-1	1,2-Dichlorobenzene	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
107-06-2	1,2-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 13:41	SS
78-87-5	1,2-Dichloropropane	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
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 13:41	SS
541-73-1	1,3-Dichlorobenzene	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
142-28-9	1,3-Dichloropropane	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 13:41	SS
106-46-7	1,4-Dichlorobenzene	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
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 13:41	SS
594-20-7	2,2-Dichloropropane	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 13:41	SS
78-93-3	2-Butanone	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
95-49-8	2-Chlorotoluene	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
591-78-6	2-Hexanone	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
106-43-4	4-Chlorotoluene	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
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	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
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 13:41	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 13:41	SS
107-13-1	Acrylonitrile	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
71-43-2	Benzene	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
108-86-1	Bromobenzene	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 13:41	SS
74-97-5	Bromochloromethane	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 13:41	SS
75-27-4	Bromodichloromethane	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
75-25-2	Bromoform	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
74-83-9	Bromomethane	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
75-15-0	Carbon disulfide	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
56-23-5	Carbon tetrachloride	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
108-90-7	Chlorobenzene	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
75-00-3	Chloroethane	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
67-66-3	Chloroform	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
74-87-3	Chloromethane	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
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 13:41	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 13:41	SS
110-82-7	Cyclohexane	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 13:41	SS
124-48-1	Dibromochloromethane	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
74-95-3	Dibromomethane	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 13:41	SS
75-71-8	Dichlorodifluoromethane	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 13:41	SS
100-41-4	Ethyl Benzene	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
87-68-3	Hexachlorobutadiene	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 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
98-82-8	Isopropylbenzene	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
79-20-9	Methyl acetate	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 13:41	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 13:41	SS
108-87-2	Methylcyclohexane	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 13:41	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 13:41	SS
104-51-8	n-Butylbenzene	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
103-65-1	n-Propylbenzene	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
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 07:30	05/16/2019 13:41	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/16/2019 07:30	05/16/2019 13:41	SS
99-87-6	p-Isopropyltoluene	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
135-98-8	sec-Butylbenzene	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
100-42-5	Styrene	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
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 13:41	SS
98-06-6	tert-Butylbenzene	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
127-18-4	Tetrachloroethylene	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
108-88-3	Toluene	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
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 13:41	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 13:41	SS
79-01-6	Trichloroethylene	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
75-69-4	Trichlorofluoromethane	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
108-05-4	Vinyl acetate	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 13:41	SS
75-01-4	Vinyl Chloride	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
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	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

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include surrogate results for 1,2-Dichloroethane-d4, Toluene-d8, and p-Bromofluorobenzene.

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

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows list various compounds like Tetrachloroethane, Trichloroethane, Freon 113, Dichloroethane, Dichloroethylene, Dichloropropylene, Trichlorobenzene, Trichloropropane, Trimethylbenzene, and Dibromoethane.



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: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:13	SS
107-06-2	1,2-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 14:13	SS
78-87-5	1,2-Dichloropropane	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 14:13	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:13	SS
541-73-1	1,3-Dichlorobenzene	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 14:13	SS
142-28-9	1,3-Dichloropropane	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 14:13	SS
106-46-7	1,4-Dichlorobenzene	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 14:13	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:13	SS
594-20-7	2,2-Dichloropropane	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 14:13	SS
78-93-3	2-Butanone	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 14:13	SS
95-49-8	2-Chlorotoluene	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 14:13	SS
591-78-6	2-Hexanone	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 14:13	SS
106-43-4	4-Chlorotoluene	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 14:13	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:13	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:13	SS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:13	SS
107-13-1	Acrylonitrile	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 14:13	SS
71-43-2	Benzene	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 14:13	SS
108-86-1	Bromobenzene	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 14:13	SS
74-97-5	Bromochloromethane	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 14:13	SS
75-27-4	Bromodichloromethane	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 14:13	SS
75-25-2	Bromoform	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 14:13	SS
74-83-9	Bromomethane	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 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
75-15-0	Carbon disulfide	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 14:13	SS
56-23-5	Carbon tetrachloride	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 14:13	SS
108-90-7	Chlorobenzene	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 14:13	SS
75-00-3	Chloroethane	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 14:13	SS
67-66-3	Chloroform	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 14:13	SS
74-87-3	Chloromethane	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 14:13	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:13	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:13	SS
110-82-7	Cyclohexane	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 14:13	SS
124-48-1	Dibromochloromethane	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 14:13	SS
74-95-3	Dibromomethane	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 14:13	SS
75-71-8	Dichlorodifluoromethane	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 14:13	SS
100-41-4	Ethyl Benzene	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 14:13	SS
87-68-3	Hexachlorobutadiene	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 14:13	SS
98-82-8	Isopropylbenzene	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 14:13	SS
79-20-9	Methyl acetate	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 14:13	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:13	SS
108-87-2	Methylcyclohexane	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 14:13	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:13	SS
104-51-8	n-Butylbenzene	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 14:13	SS
103-65-1	n-Propylbenzene	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 14:13	SS
95-47-6	o-Xylene	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 14:13	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	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
99-87-6	p-Isopropyltoluene	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 14:13	SS
135-98-8	sec-Butylbenzene	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 14:13	SS
100-42-5	Styrene	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 14:13	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:13	SS
98-06-6	tert-Butylbenzene	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 14:13	SS
127-18-4	Tetrachloroethylene	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 14:13	SS
108-88-3	Toluene	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 14:13	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:13	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/16/2019 07:30	05/16/2019 14:13	SS
79-01-6	Trichloroethylene	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 14:13	SS
75-69-4	Trichlorofluoromethane	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 14:13	SS
108-05-4	Vinyl acetate	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 14:13	SS
75-01-4	Vinyl Chloride	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 14:13	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/16/2019 07:30	05/16/2019 14:13	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	95.9 %			70-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	98.8 %			70-130						
460-00-4	Surrogate: SURRE: 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
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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	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			

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	"										
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>50.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>101</i>		<i>77-125</i>					
<i>Surrogate: SURR: Toluene-d8</i>	<i>49.4</i>		<i>"</i>	<i>50.0</i>		<i>98.9</i>		<i>85-120</i>					
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>48.5</i>		<i>"</i>	<i>50.0</i>		<i>97.1</i>		<i>76-130</i>					



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			

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	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

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	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	49.7		ug/L	50.0		99.4	77-125				
<i>Surrogate: SURR: Toluene-d8</i>	49.2		"	50.0		98.3	85-120				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	48.7		"	50.0		97.4	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source*		%REC Limits	Flag	RPD	
		Limit	Units		Result	%REC			RPD	Limit
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		Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit	Units							Level	Result

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				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>50.8</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>49.2</i>		<i>"</i>	<i>50.0</i>		<i>98.3</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>47.9</i>		<i>"</i>	<i>50.0</i>		<i>95.8</i>	<i>76-130</i>				

LCS Dup (BE90970-BSD1)

Prepared & Analyzed: 05/16/2019

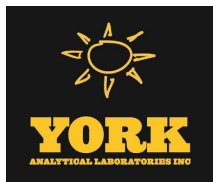
1,1,1,2-Tetrachloroethane	50.6		ug/L	50.0		101	75-129	0.436	30		
1,1,1-Trichloroethane	51.0		"	50.0		102	71-137	1.94	30		
1,1,2,2-Tetrachloroethane	48.3		"	50.0		96.5	79-129	0.0622	30		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51.4		"	50.0		103	58-146	2.96	30		
1,1,2-Trichloroethane	48.5		"	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	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit							Units	Level
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	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

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	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			

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	"										
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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
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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: SURRE: 1,2-Dichloroethane-d4	9.27		"	10.0		92.7	70-130				
Surrogate: SURRE: Toluene-d8	9.57		"	10.0		95.7	70-130				
Surrogate: SURRE: 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	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit							Units	Level
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
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		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit
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
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>9.59</i>		<i>"</i>	<i>10.0</i>		<i>95.9</i>	<i>70-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>10.2</i>		<i>"</i>	<i>10.0</i>		<i>102</i>	<i>70-130</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>11.1</i>		<i>"</i>	<i>10.0</i>		<i>111</i>	<i>70-130</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch 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	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit							Units	Level
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
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>9.96</i>		<i>"</i>	<i>10.0</i>		<i>99.6</i>	<i>70-130</i>			
<i>Surrogate: SURR: Toluene-d8</i>	<i>10.1</i>		<i>"</i>	<i>10.0</i>		<i>101</i>	<i>70-130</i>			
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>11.1</i>		<i>"</i>	<i>10.0</i>		<i>111</i>	<i>70-130</i>			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			

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	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								RPD	Limit

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	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	48.3		ug/L	50.0		96.6		77-125			
<i>Surrogate: SURR: Toluene-d8</i>	47.8		"	50.0		95.5		85-120			
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	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
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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	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

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	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>50.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>102</i>		<i>77-125</i>			
<i>Surrogate: SURR: Toluene-d8</i>	<i>48.4</i>		<i>"</i>	<i>50.0</i>		<i>96.7</i>		<i>85-120</i>			
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>55.1</i>		<i>"</i>	<i>50.0</i>		<i>110</i>		<i>76-130</i>			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit							Units	Level
Batch BE91074 - EPA 5035A										
LCS (BE91074-BS1)										
Prepared & Analyzed: 05/17/2019										
1,1,1,2-Tetrachloroethane	49.9		ug/L	50.0	99.8	99.8	75-129			
1,1,1-Trichloroethane	51.8		"	50.0	104	104	71-137			
1,1,2,2-Tetrachloroethane	46.6		"	50.0	99.2	99.2	79-129			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	52.9		"	50.0	106	106	58-146			
1,1,2-Trichloroethane	48.3		"	50.0	96.5	96.5	83-123			
1,1-Dichloroethane	51.1		"	50.0	102	102	75-130			
1,1-Dichloroethylene	50.6		"	50.0	101	101	64-137			
1,1-Dichloropropylene	51.0		"	50.0	102	102	77-127			
1,2,3-Trichlorobenzene	46.6		"	50.0	93.3	93.3	81-140			
1,2,3-Trichloropropane	46.4		"	50.0	92.8	92.8	81-126			
1,2,4-Trichlorobenzene	46.0		"	50.0	92.0	92.0	80-141			
1,2,4-Trimethylbenzene	44.4		"	50.0	88.7	88.7	84-125			
1,2-Dibromo-3-chloropropane	45.5		"	50.0	91.1	91.1	74-142			
1,2-Dibromoethane	47.7		"	50.0	95.4	95.4	86-123			
1,2-Dichlorobenzene	46.3		"	50.0	92.6	92.6	85-122			
1,2-Dichloroethane	53.3		"	50.0	107	107	71-133			
1,2-Dichloropropane	44.8		"	50.0	89.6	89.6	81-122			
1,3,5-Trimethylbenzene	44.8		"	50.0	89.5	89.5	82-126			
1,3-Dichlorobenzene	46.6		"	50.0	93.3	93.3	84-124			
1,3-Dichloropropane	48.2		"	50.0	96.3	96.3	83-123			
1,4-Dichlorobenzene	45.9		"	50.0	91.8	91.8	84-124			
1,4-Dioxane	938		"	1050	89.3	89.3	10-228			
2,2-Dichloropropane	51.0		"	50.0	102	102	67-136			
2-Butanone	48.9		"	50.0	97.7	97.7	58-147			
2-Chlorotoluene	44.2		"	50.0	88.5	88.5	78-127			
2-Hexanone	46.2		"	50.0	92.3	92.3	70-139			
4-Chlorotoluene	44.4		"	50.0	88.8	88.8	79-125			
4-Methyl-2-pentanone	48.3		"	50.0	96.6	96.6	72-132			
Acetone	36.2		"	50.0	72.3	72.3	36-155			
Acrolein	62.7		"	50.0	125	125	10-238			
Acrylonitrile	51.4		"	50.0	103	103	66-141			
Benzene	52.4		"	50.0	105	105	77-127			
Bromobenzene	46.5		"	50.0	92.9	92.9	77-129			
Bromochloromethane	50.9		"	50.0	102	102	74-129			
Bromodichloromethane	48.7		"	50.0	97.4	97.4	81-124			
Bromoform	51.7		"	50.0	103	103	80-136			
Bromomethane	52.4		"	50.0	105	105	32-177			
Carbon disulfide	55.6		"	50.0	111	111	10-136			
Carbon tetrachloride	53.2		"	50.0	106	106	66-143			
Chlorobenzene	48.0		"	50.0	96.0	96.0	86-120			
Chloroethane	48.9		"	50.0	97.8	97.8	51-142			
Chloroform	51.8		"	50.0	104	104	76-131			
Chloromethane	57.5		"	50.0	115	115	49-132			
cis-1,2-Dichloroethylene	52.4		"	50.0	105	105	74-132			
cis-1,3-Dichloropropylene	47.0		"	50.0	93.9	93.9	81-129			
Cyclohexane	63.0		"	50.0	126	126	70-130			
Dibromochloromethane	52.1		"	50.0	104	104	10-200			
Dibromomethane	49.2		"	50.0	98.4	98.4	83-124			
Dichlorodifluoromethane	64.0		"	50.0	128	128	28-158			
Ethyl Benzene	46.8		"	50.0	93.6	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
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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				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>49.9</i>		<i>"</i>	<i>50.0</i>		<i>99.8</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>47.8</i>		<i>"</i>	<i>50.0</i>		<i>95.5</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>47.5</i>		<i>"</i>	<i>50.0</i>		<i>94.9</i>	<i>76-130</i>				

LCS Dup (BE91074-BSD1)

Prepared & Analyzed: 05/17/2019

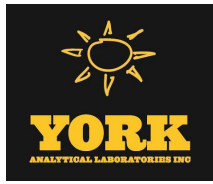
1,1,1,2-Tetrachloroethane	47.4		ug/L	50.0		94.9	75-129		5.01	30	
1,1,1-Trichloroethane	52.0		"	50.0		104	71-137		0.251	30	
1,1,2,2-Tetrachloroethane	47.8		"	50.0		95.6	79-129		2.46	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	52.6		"	50.0		105	58-146		0.569	30	
1,1,2-Trichloroethane	48.1		"	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		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD		Flag
		Limit	Units						RPD	Limit	
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
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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
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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	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

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	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					RPD	

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	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit			Result					RPD	Limit
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
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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.

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				
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
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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
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Batch BE91201 - EPA 3550C

Blank (BE91201-BLK1)

Prepared: 05/20/2019 Analyzed: 05/22/2019

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	"								



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch 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
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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.

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					
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
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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.

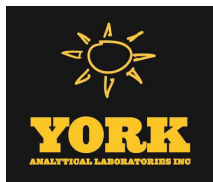
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE91201 - EPA 3550C											
Matrix Spike Dup (BE91201-MSD1)	*Source sample: 19E0591-07 (SB003 (6-8))						Prepared: 05/20/2019 Analyzed: 05/22/2019				
1,1-Biphenyl	0.504	0.0934	mg/kg dry	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
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Batch BE91249 - EPA 3550C

Blank (BE91249-BLK1)

Prepared: 05/21/2019 Analyzed: 05/22/2019

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	"								



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	Limits	Flag	RPD	Limit	Flag
		Limit		Level	Result	%REC			RPD		

Batch 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.

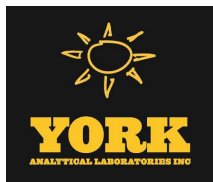
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BE91249 - EPA 3550C

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
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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

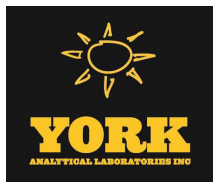
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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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	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					Limit	

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	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

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
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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	Units	Spike	Source*	%REC	Limits	Flag	RPD	RPD	Flag
		Limit		Level	Result	%REC				Limit	

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	55.6	"
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		Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit	Units							Level	Result

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	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								RPD	Limit

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
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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
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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	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								Level	Result

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
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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	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								Level	Result

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	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Limit	Flag
		Limit		Level	Result		Limits		Limit			

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	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Flag
		Limit		Level	Result	Limits	Limit				

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								



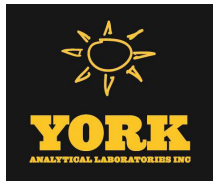
Mercury by EPA 7000/200 Series Methods - Quality Control Data
York Analytical Laboratories, Inc.

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
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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

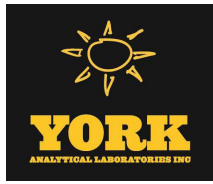


Sample and Data Qualifiers Relating to This Work Order

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

YORK Project No.

19E0591

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Page 1 of 5

YOUR Information		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company: PWC	Company:	Company:	Company:	LST1802		YOUR Project Name		RUSH - Next Day	
Address: 630 Johnson Ave, Bohemia NY 11716	Address:	Address:	Address:	LST1802		LST1802		RUSH - Two Day	
Phone: 631-589-6353	Phone:	Phone:	Phone:					RUSH - Three Day	
Contact: Dan Haug	Contact:	Contact:	Contact:					RUSH - Four Day	
E-mail: DHaug@pwcrosser.com	E-mail:	E-mail:	E-mail:					Standard (5-7 Day)	X
						YOUR PO#:			

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) Janette Cooley	Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.	
	S - soil / solid	New York	<input checked="" type="checkbox"/>	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
	GW - groundwater	New Jersey	<input type="checkbox"/>	QA Report	CT RCP DQA/DUE	EquiS (Standard)	
	DW - drinking water	Connecticut	<input type="checkbox"/>	NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EquiS	
	WW - wastewater	Pennsylvania	<input checked="" type="checkbox"/>	NY ASP B Package	NJDEP SRP HazSite		
O - Oil ; Other	Other	<input type="checkbox"/>		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	SVOC, 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:	Preservation: (check all that apply)	Special Instruction
Proposal from 4/29/19	HCl ___ MeOH ___ HNO ₃ ___ H ₂ SO ₄ ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: _____	Field Filtered ___ Lab to Filter <u>X</u>

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	K. Bah York	5/13/19 2:30 PM	K. Bah York	5/13/19
Sa	Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company
Sa	Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by
					Temp. Received at Lab
					PGrace 5-13-19 174e 2.0

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York Analytical Laboratories, Inc.

120 Research Drive 132-02 89th Ave
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ANALYTICAL LABORATORIES INC

Field Chain-of-Custody Record

YORK Project No.

19E0591

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Page 2 of 5

YOUR Information		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company: PWGC	Company:	Company:	Company:	LST1802		LST1802		RUSH - Next Day	
Address: 630 Johnson Ave Bohemia NY 11716	Address:	Address:	Address:	YOUR Project Name		LST1802		RUSH - Two Day	
Phone: 631-589-6353	Phone:	Phone:	Phone:					RUSH - Three Day	
Contact: Dan Haug	Contact:	Contact:	Contact:					RUSH - Four Day	
E-mail: Dhaug@PWGrasser.com	E-mail:	E-mail:	E-mail:					Standard (5-7 Day)	X
				YOUR PO#:					

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) Jaquille Cooley	Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
	S - soil / solid	New York	<input checked="" type="checkbox"/>	Summary Report	CT RCP	Standard Excel EDD
GW - groundwater	New Jersey	<input type="checkbox"/>	QA Report	CT RCP DQA/DUE	EQulS (Standard)	
DW - drinking water	Connecticut	<input type="checkbox"/>	NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQulS	
WW - wastewater	Pennsylvania	<input type="checkbox"/>	<u>NY ASP B Package</u>	NJDEP SRP HazSite		
O - Oil ; Other	Other	<input type="checkbox"/>		NJDKQP	Other:	

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB004 (4-6)	S	9:35 5/10/19	SVOCS, metals, Pest, PCBs	
SB004 (2-4)	S	9:40 5/10/19	SVOCS, metals, Pest, PCBs	
SB005 (2-4)	S	8:15 5/10/19	SVOCS, metals, Pest, PCBs	
SB005 (10-2)	S	8:25 5/10/19	SVOCS, metals, Pest, PCBs	
SB005 (8-10)	S	8:20 5/10/19	SVOCS, metals, Pest, PCBs	
SB006 (10-2)	S	9:00 5/10/19	SVOCS, metals, Pest, PCBs	
SB006 (4-6)	S	9:05 5/10/19	SVOCS, metals, Pest, PCBs	
SB006 (6-8)	S	9:10 5/10/19	SVOCS, metals, Pest, PCBs	
SB007 (8-10)	S	12:50 5/10/19	SVOCS, metals	
SB007 (12-14)	S	13:00 5/10/19	SVOCS metals	

Comments:	Preservation: (check all that apply)	Special Instruction
Proposal from 4/29/19	HCl ___ MeOH ___ HNO ₃ ___ H ₂ SO ₄ ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: _____	Field Filtered ___ Lab to Filter <input checked="" type="checkbox"/>

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
	10/10/19 5:00 PM	KBahr York	5/13/19 2:30 PM	KBahr York	5/13/19
Sa	Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company
Sa	Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by
					Temp. Received at Lab

Grace 5-13-19 1744 @ 2.0 Degrees C

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Page 3 of 5

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YOUR Information		Report To:	Invoice To:	YOUR Project Number		Turn-Around Time	
Company: PWC	Company:	Company:	Company:	LST 1802		RUSH - Next Day	
Address: 630 Johnson Ave Bohemia NY 11716	Address:	Address:	Address:	YOUR Project Name		RUSH - Two Day	
Phone: 631-589-6353	Phone:	Phone:	Phone:	LST 1802		RUSH - Three Day	
Contact: Dan Haug	Contact:	Contact:	Contact:			RUSH - Four Day	
E-mail:	E-mail:	E-mail:	E-mail:	YOUR PO#:		Standard (5-7 Day) <input checked="" type="checkbox"/>	

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
S - soil / solid	New York	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	EQUS (Standard)	
DW - drinking water	Connecticut	NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQUS	
WW - wastewater	Pennsylvania	<input checked="" type="checkbox"/> NY ASP B Package	NJDEP SRP HazSite		
O - Oil ; Other	Other		NJDKQP	Other:	

Samples Collected by: (print your name above and sign below)
Janell Leakey

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB007 (0-2)		1240	SVOC, metal	
SB008 (6-8)		700	SVOC, metal	
SB008 (0-2)		705	SVOC, metal	
SB008 (4-6)		716	SVOC, metal	
SB009 (6-8)		810	SVOC, metal, Pest, PCBs , VOC	
SB009 (2-4)		800	SVOC, metals, Pest, PCBs , VOC	
SB009 (8-10)		805	SVOC, metals, Pest, PCBs , VOC	
SB010 (0-2)		1345	SVOC, metal	
SB010 (6-8)		1350	SVOC, metal	
SB010 (2-4)		1330	SVOC, metal	

Comments:	Preservation: (check all that apply)	Special Instruction
	HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: _____	Field Filtered ___ Lab to Filter <input checked="" type="checkbox"/>

Proposal from 4/29/19

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
	10/10/19 1500	K. Bahr York	5/13/19 2300M	K. Bahr York	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: 5-13-19 1744 e2-0 Degrees C

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YORK Analytical Laboratories, Inc.

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Field Chain-of-Custody Record

YORK Project No.

19E0591

Page 4 of 5

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YOUR Information		Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: PWGC	Company:	Company:	Company:	LST1802	RUSH - Next Day
Address: 630 Johnson Ave Bohemia NY	Address:	Address:	Address:		RUSH - Two Day
Phone: 631-589-6353	Phone:	Phone:	Phone:	YOUR Project Name	RUSH - Three Day
Contact: Dan Haug	Contact:	Contact:	Contact:	LST1802	RUSH - Four Day
E-mail: Dhaug@PWGrosser.com	E-mail:	E-mail:	E-mail:	YOUR PO#:	Standard (5-7 Day) <input checked="" type="checkbox"/>

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 <input checked="" type="checkbox"/>	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 ASPA Package NJDEP Reduced Deliverables NYSDEC EQUIS	
WW - wastewater	Pennsylvania	NY ASP B Package NJDEP SRP HazSite	
O - Oil ; Other	Other	NJDKQP Other:	

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
MW001	w	730	SVOCs, Metals (total dissolved) Pest, PCBs, VOCs	
MW002 / MW002(MI) / 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 ___ HNO₃ ___ H₂SO₄ ___ NaOH ___ ZnAc ___
 Ascorbic Acid ___ Other: _____

Special Instruction: Field Filtered ___ Lab to Filter

Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
	10/10/19 1500	KBak, York	5/13/19 230 PM	KBak, York	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 5-13-19 1744 @ 2-0 Degrees C

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York Analytical Laboratories, Inc.

120 Research Drive 132-02 89th Ave
Stratford, CT 06615 Queens, NY 11418

YORK
ANALYTICAL LABORATORIES INC

clientservices@yorklab.com

www.yorklab.com

Field Chain-of-Custody Record

YORK Project No.

19E0591

Page 5 of 5

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.

YOUR Information		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company: <u>PWGC</u>	Company:	Company:	Company:	YOUR Project Name		LST1802		RUSH - Next Day	
Address: <u>630 Johnson Ave Bohemia NY 11716</u>	Address:	Address:	Address:	YOUR Project Name		LST1802		RUSH - Two Day	
Phone.: <u>631-589-6353</u>	Phone.:	Phone.:	Phone.:	YOUR Project Name		LST1802		RUSH - Three Day	
Contact: <u>Dan Haug</u>	Contact:	Contact:	Contact:	YOUR Project Name		LST1802		RUSH - Four Day	
E-mail: <u>DHaug@pwgrosser.com</u>	E-mail:	E-mail:	E-mail:	YOUR Project Name		LST1802		Standard (5-7 Day) <input checked="" type="checkbox"/>	
YOUR PO#:									

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	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
		S - soil / solid	New York <input checked="" type="checkbox"/>	Summary Report	CT RCP	Standard Excel EDD
	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	<u>NY ASP B Package</u>	NJDEP SRP HazSite		
	O - Oil ; Other	Other		NJDKQP	Other:	

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
FB001	W	10/10/19	SVOCs, VOCs, metals (total/dissolved) Per+ PCBs	
EB001	W	10/10/19	SVOCs, VOCs, metals (total/dissolved) Per+ PCBs	
FB002	W	10/10/19	SVOCs, VOCs, metals (total/dissolved) Per+ PCBs	
EB002	W	10/10/19	SVOCs, VOCs, metals (total/dissolved) Per+ PCBs	
FB003	W	10/10/19	SVOCs, VOCs, metals (total/dissolved) Per+ PCBs	
EB003	W	10/10/19	SVOCs, VOCs, metals (total/dissolved) Per+ PCBs	

Comments: <u>Proposal from 4/29/19</u>	Preservation: (check all that apply)	Special Instruction
	HCl ___ MeOH ___ HNO ₃ ___ H ₂ SO ₄ ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: _____	Field Filtered ___ Lab to Filter <input checked="" type="checkbox"/>

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received in LAB by	Date/Time	Temp. Received at Lab
<u>[Signature]</u>	10/10/19 1500	<u>KBahr York</u>	5/13/19 2:30 PM	<u>KBahr York</u>	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			

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AGrace 5-13-19 1744 e 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

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: 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
Project Number: LST1802

Lab Number: L1924473
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
Project Number: LST1802

Lab Number: L1924473
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**Lab Number:** L1924473**Project Number:** LST1802**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
 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:

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
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:

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
Project Number: LST1802

Lab Number: L1924473
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
Project Number: LST1802

Lab Number: L1924473
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
Project Number: LST1802

Lab Number: L1924473
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

Lab Number: L1924473

Project Number: LST1802

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

Lab Number: L1924473

Project Number: LST1802

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

Lab Number: L1924473

Project Number: LST1802

Report Date: 07/02/19

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	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
 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:

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
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:

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
 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:

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
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:

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**Lab Number:** L1924473**Project Number:** LST1802**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
 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:

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
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:

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
 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:

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
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:

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
 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:

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
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:

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
 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:

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
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:

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
 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:

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
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:

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
 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:

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
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:

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
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					
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
Semivolatle 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

Lab Number: L1924473

Project Number: LST1802

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

Lab Number: L1924473

Project Number: LST1802

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

Lab Number: L1924473

Project Number: LST1802

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

Lab Number: L1924473

Project Number: LST1802

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

Lab Number: L1924473

Project Number: LST1802

Report Date: 07/02/19

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			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			50
Bis(2-ethylhexyl)phthalate	68		80		40-140			50
Butyl benzyl phthalate	72		86		40-140			50
Di-n-butylphthalate	68		80		40-140			50
Di-n-octylphthalate	70		83		40-140			50
Diethyl phthalate	70		79		40-140			50
Dimethyl phthalate	67		74		40-140			50
Benzo(a)anthracene	68		81		40-140			50
Benzo(a)pyrene	73		89		40-140			50
Benzo(b)fluoranthene	69		84		40-140			50
Benzo(k)fluoranthene	69		85		40-140			50
Chrysene	64		77		40-140			50
Acenaphthylene	68		74		40-140			50
Anthracene	64		74		40-140			50
Benzo(ghi)perylene	67		82		40-140			50
Fluorene	68		73		40-140			50
Phenanthrene	62		71		40-140			50
Dibenzo(a,h)anthracene	66		80		40-140			50
Indeno(1,2,3-cd)pyrene	68		85		40-140			50
Pyrene	68		81		35-142			50
Biphenyl	62		64		54-104			50
4-Chloroaniline	72		68		40-140			50
2-Nitroaniline	78		89		47-134			50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 399 EXTERIOR STREET

Lab Number: L1924473

Project Number: LST1802

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

Lab Number: L1924473

Project Number: LST1802

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

Lab Number: L1924473

Project Number: LST1802

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

Lab Number: L1924473

Project Number: LST1802

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

Lab Number: L1924473

Project Number: LST1802

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
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:

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
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:

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

Lab Number: L1924473

Project Number: LST1802

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	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,21 Batch: WG1246652-2 WG1246652-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	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**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:

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

Lab Number: L1924473

Project Number: LST1802

Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-02

Date Collected: 06/06/19 08:00

Client ID: SB003(8-10)

Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY

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

Date Collected: 06/06/19 08:05

Client ID: SB003(10-12)

Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY

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

Date Collected: 06/06/19 08:10

Client ID: SB003(12-14)

Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY

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

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:

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

Date Collected: 06/06/19 08:20

Client ID: SB011(8-10)

Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY

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

Date Collected: 06/06/19 08:25

Client ID: SB011(10-12)

Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY

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

Date Collected: 06/06/19 08:25

Client ID: SB011(12-14)

Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY

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

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:

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

Date Collected: 06/06/19 11:10

Client ID: SB006(8-10)

Date Received: 06/07/19

Sample Location: 399 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											
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

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:

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**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:

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

Date Collected: 06/06/19 13:10

Client ID: SB016(8-10)

Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY

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

Date Collected: 06/06/19 13:20

Client ID: SB016(10-12)

Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY

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
Project Number: LST1802

Lab Number: L1924473
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
Project Number: LST1802

Lab Number: L1924473
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		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
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

Lab Number: L1924473

Project Number: LST1802

Report Date: 07/02/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD 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

Lab Number: L1924473

Project Number: LST1802

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

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:

Matrix: Soil

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

Lab Number: L1924473

Project Number: LST1802

Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-02

Date Collected: 06/06/19 08:00

Client ID: SB003(8-10)

Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY

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	84.4		%	0.100	NA	1	-	06/08/19 12:50	121,2540G	RI



Project Name: 399 EXTERIOR STREET

Lab Number: L1924473

Project Number: LST1802

Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-03

Date Collected: 06/06/19 08:05

Client ID: SB003(10-12)

Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY

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	61.5		%	0.100	NA	1	-	06/08/19 12:50	121,2540G	RI



Project Name: 399 EXTERIOR STREET**Lab Number:** L1924473**Project Number:** LST1802**Report Date:** 07/02/19**SAMPLE RESULTS**

Lab ID: L1924473-04

Date Collected: 06/06/19 08:10

Client ID: SB003(12-14)

Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY

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	60.1		%	0.100	NA	1	-	06/08/19 12:50	121,2540G	RI



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:

Matrix: Soil

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

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:

Matrix: Soil

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

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:

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

Lab Number: L1924473

Project Number: LST1802

Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-11

Date Collected: 06/06/19 08:20

Client ID: SB011(8-10)

Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY

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	77.6		%	0.100	NA	1	-	06/08/19 12:50	121,2540G	RI



Project Name: 399 EXTERIOR STREET

Lab Number: L1924473

Project Number: LST1802

Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-12

Date Collected: 06/06/19 08:25

Client ID: SB011(10-12)

Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY

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	74.9		%	0.100	NA	1	-	06/08/19 12:50	121,2540G	RI



Project Name: 399 EXTERIOR STREET**Lab Number:** L1924473**Project Number:** LST1802**Report Date:** 07/02/19**SAMPLE RESULTS**

Lab ID: L1924473-13

Date Collected: 06/06/19 08:25

Client ID: SB011(12-14)

Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY

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	84.0		%	0.100	NA	1	-	06/15/19 14:38	121,2540G	RI



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:

Matrix: Soil

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

Lab Number: L1924473

Project Number: LST1802

Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-16

Date Collected: 06/06/19 11:10

Client ID: SB006(8-10)

Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY

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	91.4		%	0.100	NA	1	-	06/08/19 12:50	121,2540G	RI



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:

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	-	06/08/19 12:50	121,2540G	RI



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:

Matrix: Soil

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**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:

Matrix: Soil

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

Lab Number: L1924473

Project Number: LST1802

Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-22

Date Collected: 06/06/19 13:10

Client ID: SB016(8-10)

Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY

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	55.7		%	0.100	NA	1	-	06/22/19 09:58	121,2540G	RI



Project Name: 399 EXTERIOR STREET

Lab Number: L1924473

Project Number: LST1802

Report Date: 07/02/19

SAMPLE RESULTS

Lab ID: L1924473-23

Date Collected: 06/06/19 13:20

Client ID: SB016(10-12)

Date Received: 06/07/19

Sample Location: 399 EXTERIOR ST., BRONX, NY

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	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**Lab Number:** L1924473**Project Number:** LST1802**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)

Project Name: 399 EXTERIOR STREET
Project Number: LST1802

Serial_No:07021920:08
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)

Project Name: 399 EXTERIOR STREET
Project Number: LST1802

Lab Number: L1924473
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
Project Number: LST1802

Lab Number: L1924473
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
Project Number: LST1802

Lab Number: L1924473
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, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: 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 <small>ANALYTICAL</small>	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 # L19224473
		Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		
Project Information		Project Name: 399 Exterior Street Project Location: 399 Exterior St. Bronx, N Project # L5T1802		Deliverables	
Client Information		Client: PW Grasser Consulting Address: 630 Johnson Ave Birmingh NY 11716 Phone: 631-589-6353 Fax: Email: derek@pwgrasser.com		Billing Information <input type="checkbox"/> Same as Client Info PO #	
Regulatory Requirement		Project Manager: Derek Ershak ALPHAQuote #: 8331 Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Disposal Site Information	
These samples have been previously analyzed by Alpha <input type="checkbox"/>		(Use Project name as Project #) <input type="checkbox"/>		Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:	
Other project specific requirements/comments: * Hold Sample *		Please specify Metals or TAL.		ANALYSIS	
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection	
				Date	Time
				Sample Matrix	Sampler's Initials
				SVOCs (Part 375 List)	AS, Ba, Cu, Pb, Hg
				Pest (Part 315 List)	PCBs (Part 325 List)
				Pb	Pb
				Sample Specific Comments	Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)
				Container Type	Preservative
				Retinquished By:	Date/Time
				Received By:	Date/Time
				Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		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 <u>2</u> of <u>3</u>		Date Rec'd in Lab		ALPHA Job #																																																																																																															
		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: <u>349 Exterior Street</u> Project Location: <u>349 Exterior Street, Bronx, NY</u> Project # <u>LS1802</u> (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input type="checkbox"/> Same as Client Info PO #																																																																																																															
Client Information Client: <u>PWGrosser Consulting</u> Address: <u>630 Johnson Ave</u> <u>Bonemichol NY 11716</u> Phone: <u>631-589-6550</u> Fax: Email: <u>Dereke@pwgrossecr.com</u>		Project Manager: <u>Derek Ershar</u> ALPHAQuote #: <u>8331</u> Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																																																																																																	
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Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Relinquished By: <u>[Signature]</u> Date/Time: <u>6/7/19 8:00</u>		Received By: <u>[Signature]</u> Date/Time: <u>6/7/19 9:51</u>		Relinquished By: <u>[Signature]</u> Date/Time: <u>6/7/19 15:50</u>		Received By: <u>[Signature]</u> Date/Time: <u>6/7/19 16:30</u>																																																																																																													

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Project Manager: <u>Derek Orsbak</u> ALPHAQuote #: <u>0331</u>		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																																																		
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APPENDIX B

USEPA LOW-FLOW GROUNDWATER SAMPLING PROCEDURE

LST1802.A –Remedial Investigation Work Plan

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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
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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.

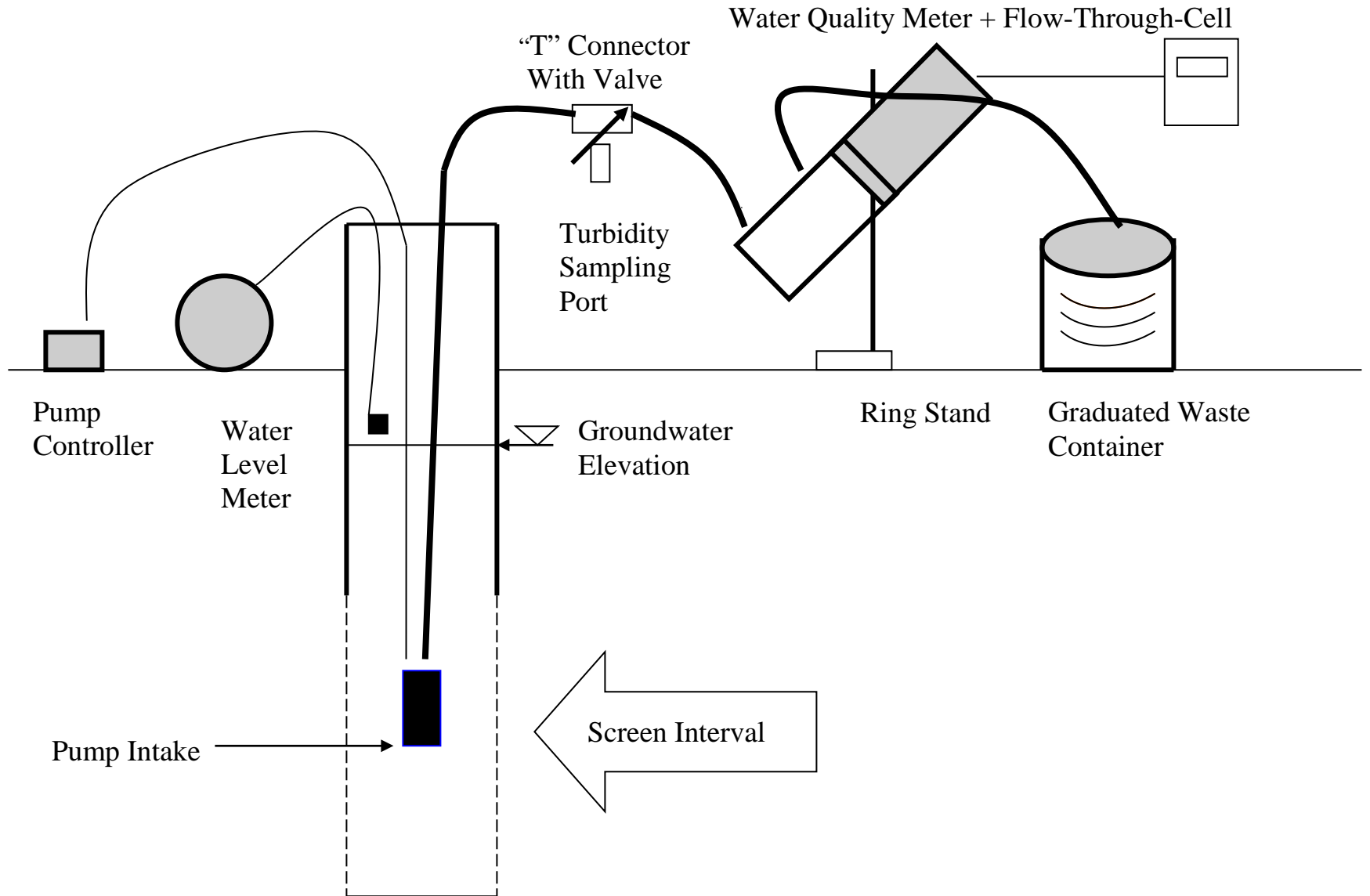
If the pump's tubing is not completely filled with water and the samples are being collected for VOCs and/or dissolved gases analyses using a centrifugal or peristaltic pump, do the following:

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 PROJECT TEAM RESUMES

LST1802.A –Remedial Investigation Work Plan

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Andrew Lockwood, PG, LEP •

SR. VICE PRESIDENT

PROFESSIONAL EXPERIENCE

PWGC: 15 years

PRIOR: 17 years

AREAS OF EXPERTISE

Phase I and Phase II Environmental Site Assessments
PFAS and other emerging contaminants
Petroleum Spill site investigation/remediation
CERCLA sites
NYSDEC Brownfield Cleanup Program/Environmental Restoration Program
Environmental/Regulatory Compliance (Investigation/Remediation Mgmt)
Radiological Characterization & Remediation
Chemical, Radiological/Mixed Waste Management & Disposal
Groundwater Treatment System (Planning, Design, O&M)
Client Representation & Regulatory Liaison
Environmental Program Mgmt (Planning, Monitoring, Safety)

EDUCATION & TRAINING/CERTIFICATION

BA Geology, SUNY Potsdam, NY
Licensed Professional Geologist - NYS
Licensed Environmental Professional (LEP), State of Connecticut
“D&D of Research Reactors & Other Small Nuclear Facilities” Certificate (Argonne Nat’l Laboratory, 11/2001)
DOE Radiological Worker I & III
OSHA Health & Safety 40-hr, Supervision 8-hr
30-hr OSHA Construction Safety Training, 2009
Advanced Radioactive Material Shipper Certification Training, 2004
Advanced Hazardous Waste Shipper Certification Training, 2004
ISOCS Measurements Using the Inspector, Canberra Industries, Inc, 1999
Groundwater Pollution & Hydrogeology, Princeton University, 1990
Project Leadership Course, PCI Global Inc., 2001



PROFILE

Mr. Lockwood specializes in planning and managing CERCLA/NYSDEC remedial investigations/Feasibility Studies, Phase I and Phase II ESAs, Brownfields Cleanup Program (BCP) projects, and nuclear facility decontamination & decommissioning (D&D). He has worked at numerous DOE and DOD facilities in more than a dozen states across the country managing remedial investigation/feasibility study projects involving the generation of radiological, hazardous and mixed waste. They include multi-year projects that involved complex investigations, remediation and waste management issues. Mr. Lockwood manages PWGC's environmental group, overseeing a staff of more than 30 professionals.

Mr. Lockwood has over 30 years of experience managing environmental investigation and remediation projects including CERCLA RI/FS sites, NYSDEC BCP sites, NYCDEP “E” sites, Municipal Landfill permitting and closure, and environmental investigations for real estate transactions. Mr. Lockwood's clients range from large governmental agencies to small real estate developers. He has performed work across the eastern United States under numerous federal, state, and local regulatory agencies.

NOTABLE PROJECTS

Suffolk County Fire Training Facility - Yaphank, NY—RI/FS

Mr. Lockwood manages the ongoing RI/FS for the Suffolk County fire training facility in Yaphank, NY. The 28-acre site is in the NYSDEC's inactive hazardous waste site program. The site was listed as a NYS Class 2 Inactive Hazardous Waste Disposal Site in August 2017. The primary contaminants of concern are in a class of chemicals referred to as per and poly fluoroalkyl substances (PFAS). The specific PFAS of interest are primarily perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA). The presence of these compounds is the result of the use of the Aqueous Film Forming Foam (AFFF) at the site. Mr. Lockwood was responsible for the preparation of the Citizens Participation Plan, Records Search Report, RI Work Plan, Quality Assurance Project Plan and Health and Safety Plan. The RI field work included delineation of PFAS in soil on-site and in groundwater both on and off site. In addition, site specific protection of groundwater soil cleanup objectives were calculated (no soil cleanup standards are available in NYS). PWGC is currently preparing a feasibility study with alternatives to address both soil and groundwater contamination at the site.

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Wertheim National Wildlife Refuge - Shirley, NY—POET System Design and O&M

Three Point of Entry Treatment (POET) Systems were designed and installed at the refuge, one in a maintenance garage and two in residential buildings located within the refuge. The POET Systems were designed to remove per and poly fluoroalkyl substances (PFAS) that were detected in the groundwater supply wells servicing the three structures. Mr. Lockwood was responsible for the preparation of an Engineering Report and Operations and Maintenance Manuals for the systems. PWGC oversaw the installation and start up testing of the systems and is performing the scheduled system sampling to ensure that the systems are functioning as designed.

Carmans River - Shirley, NY—Surface Water and Biota Monitoring

Mr. Lockwood managed the investigation of per and poly fluoroalkyl substances (PFAS) in surface water and biota within the Carmans River and other water bodies within Suffolk County. Mr. Lockwood prepared a Biota Monitoring Work Plan/QAPP that included the collection of surface water and biota samples (eels, blue crabs, white perch, and clams) for PFAS analysis. He prepared a Biota Monitoring Report detailing the results of the investigation.

Gabreski Airport - Westhampton Beach, NY

Mr. Lockwood managed a field investigation to investigate the presence of per and poly fluoroalkyl substances (PFAS) in groundwater discovered during routine O&M monitoring of a NYSDEC BCP site. Vertical profile wells were installed upgradient and downgradient of the site. The Investigation is ongoing.

Brookhaven National Laboratory - Upton, NY

Mr. Lockwood served over 10 years as Project Manager on various CERCLA projects for BNL Environmental Restoration Division (ERD). He has managed diverse projects for BNL's Groundwater, Surface, and Reactor Groups. On his most recent projects for the Reactor Group, Mr. Lockwood provided project management services on four remediation projects over a 3-year period with budgets totaling more than 15 million dollars. In addition, he has prepared or assisted in the preparation of site-specific project documents such as work plans, sampling and analysis plans, quality assurance project plans, health and safety plans, records of decision (ROD), completion reports, final status surveys, remedial investigations (RI) and feasibility studies (FS). He has prepared contract documents, including request for proposals (RFP's), scopes of work (SOWs), and contract specifications for both large- and small-scale procurements and has acted as the technical representative on multiple contracts, ensuring the contract scope is being completed.

Mr. Lockwood combines his technical background with his in-depth knowledge of BNL's protocols and procedures to prepare schedules and cost estimates for baseline and fiscal year budgeting and tracking, provide short-term assistance to help BNL complete Baseline Change Proposals, and long-term assistance to manage remedial projects.

Project Manager- Fan Houses and Stack Silencer D&D, Underground Utilities Removal, Perimeter Area Soil Remediation Projects

Mr. Lockwood managed multiple remediation projects at BNL between 2008 and 2011. Project involved overseeing demolition of radiologically contaminated above ground and below ground structures, preparation of project documents including Remedial Action Work Plans, Sampling and Analysis Plans, and Completion Reports. The projects involved the disposition of complex waste streams. He was the primary interface with regulatory agencies and DOE. Mr. Lockwood was responsible for completing the projects on schedule and within the allocated budget. All projects were successfully completed.

Project Manager - Chemical Holes Remediation Project

Mr. Lockwood was involved with the Chemical Holes project since 1995. He served as the project Field Engineer performing and/or overseeing the characterization of the site including soil and groundwater sampling as well as geophysical surveys using EM-51, EM-61, Rapid Geophysical Surveyor (RGS) and multiple GPR surveys to locate the 55 individual waste pits. Pilot Testing for selected remedies was conducted and included in-situ vitrification, excavation, and containment using cement/polymer injection. He participated in the selected remedy, large-scale excavation and disposal, overseeing excavations of the waste pits at the site. He served as the Project Manager for the post-excavation characterization and disposal, wastes generated included mixed, waste, cylinders, liquid mixed waste, and mixed waste soil (mercury). More than 15,000 yd³ of waste was successfully transported for disposal and the site released with no radiological controls, he was responsible for the characterization, management, treatment, transport, and disposal of complex waste streams.

Project Manager - Former Hazardous Waste Management Facility Project

Utilizing his knowledge of chemical and radiological characterization, CERCLA, and DOE procedures and protocols, Mr. Lockwood managed the characterization, and implementation, of a remedial design at a 12-acre site formerly used as the primary facility for the storage, treatment, and packaging of hazardous, radioactive, and mixed waste at BNL. His responsibilities included the development of project plans, project scope and detailed schedule, resource needs and budget estimates. The project involved the characterization of buildings with both hazardous and radiological contamination, their D&D and transport and disposal to permitted facilities. In addition, characterization of the 12-acre facility was performed which included soil, groundwater and sediment sampling, at NYS delineated wetland located within the facility, for chemical and radiological contamination. A remedial design was prepared which included the excavation of approximately 11,000 yd³ of radiologically contaminated soil and sediment and the restoration of the site. As project manager, Mr. Lockwood was responsible for the daily management of this project including preparation of contract specifications, procurement documents and budget forecasting and management. He was responsible for the preparation or approval of all project documents from characterization, contracting, through implementation of the remedial action. Mr. Lockwood coordinated the successful completion of the project tasks overseeing subcontractors and support from other BNL divisions.



Project Engineer OU III Strontium-90 Pilot Study Design – Mr. Lockwood prepared a Pre-Design Characterization Work Plan to support the preparation of a Pilot Study Design for the remediation of Strontium-90 (sr-90) contaminated groundwater at BNL. Groundwater south of the former Chemical/Animal Pits had been impacted with sr-90 at concentrations exceeding NYSDEC groundwater standards. The purpose of the investigation was to delineate the concentrations within and extent of the sr-90 plume. Mr. Lockwood implemented the plan prepared the Pre-Design Characterization Report, and participated in the successful completion of the Pilot Study, which led to the installation of a permanent remedy using resin vessels to remove sr-90 from the groundwater.

Special Projects Manager BNL Waste Management Facility - Mr. Lockwood provided technical services support to the BNL Environmental and Waste Management Services Division. His responsibilities included project planning and implementation of the characterization, packaging, and disposal unknown radioactive sources (including TRU Waste). Mr. Lockwood prepared technical work documents (TWDs) for the D&D of radiologically contaminated equipment including the Building 801 D-Tanks Pipe Removal project and the Building 865 Compactor Repair. He also prepared TWDs for the sampling of low level radioactive liquid wastes in the Bldg. 810/811 storage tanks. Mr. Lockwood prepared maintenance procedures for the facilities infrastructure. Mr. Lockwood prepared and implemented a TWD for the Central Steam Plant Outfall Soil Excavation, Transportation, and Disposal, including preparation of sampling plans, delineation of lead impacted soils, review of contractor deliverables and oversight of the excavation and performance of confirmatory sampling and reporting.

Field Engineer Brookhaven Linear Isotope Producer (BLIP) Investigation - The BLIP facility is used for the production of radioisotopes used in the medical field. Targets are introduced into the beam line produced by a linear accelerator. The facility was constructed with an earthen beam stop. Mr. Lockwood participated in the preparation of a work plan to characterize the nature and extent of soil and groundwater contamination associated with the operation of the facility. Sodium-22 and tritium were identified as the primary contaminants of concern. The extent of the radiological contaminants was identified and a report detailing the results of the investigation prepared.

Field Engineer OU I Western South Boundary Groundwater Remediation System Design - Mr. Lockwood oversaw the implementation of the Characterization Work Plan installing temporary and permanent groundwater monitoring well points to delineate the extent of contamination within the Western South Boundary groundwater contamination plume at the BNL site. Mr. Lockwood oversaw the preparation of the Remedial Design Documents and construction of the groundwater treatment system identified in the design.

Field Engineer Magothy Characterization Project - Mr. Lockwood oversaw the implementation of the Characterization Work Plan installing temporary and permanent groundwater monitoring well points to delineate the extent of contamination within the Magothy aquifer beneath the BNL site.

Brownfield Cleanup (BCP)/Environmental Restoration Program (ERP)

Mr. Lockwood manages BCP and ERP projects for both private and municipal clients. He prepares applications, technical documents, and interfaces with NYSDEC project managers to ensure project schedule and scope meet NYSDEC's requirements for approval of incentives/reimbursements. These sites require preparation of BCP and ERP applications, technical work plans, RI reports, human health and ecological assessments, remedial alternatives reports (FS), citizens participation plans, public meetings and completion reports. Under contract with the Suffolk County department of Health Services (SCDHS) and the Department of Public Works (DPW), Mr. Lockwood assists the County in managing the technical aspects of County owned sites in the NYSDEC Brownfields Cleanup and Environmental Restoration Programs. These sites include former United State Air Force Disposal Sites and former industrial and gasoline service station sites which are currently vacant or unused because the redevelopment of the sites are hampered by historical site uses which have contaminated soil and groundwater.

New York City "E" Designation Sites

In response to the recent rezoning activities in NYC the NYC Department of Environmental Protection (NYCDEP) oversees environmental investigation and remediation at suspect sites prior to redevelopment. Mr. Lockwood develops scopes of work for environmental investigation required to redevelop the "E" designated property. He prepares work plans and HASP reports; which DEP 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 he develops and implements remedial strategies and prepares Remedial Action Plans for NYCDEP approval.

Phase I & Phase II Environmental Site Assessment (ESA)

Project Management – Mr. Lockwood managed Phase I & II ESA's preparation, implementation, and completion. Mr. Lockwood performs these services for a variety of clients including banks, developers and municipalities. For each project, he provides a customized scope of work and relevant documentation to provide clients with pertinent information. He performs Phase I & Phase II ESA's for private clients, environmental attorneys, municipalities, and lending institutions for use in property transactions according to ASTM Standards.

Lowe's Home Center

Mr. Lockwood manages Phase II environmental investigations and remediation for Lowe's Home Centers. Mr. Lockwood is one of a team of consultants who manages site development activities at properties identified by Lowe's as potential development sites. These sites include previously developed sites with past commercial and industrial, including one used as a Municipal Solid Waste Landfill. Each site has a unique environmental issues and regulatory involvement. Mr. Lockwood prepares environmental reports, engineering designs and conducts remedial activities to support redevelopment of the sites.



GTJ-Group/Green Bus Lines, Inc - Queens/Brooklyn, NY

Hydrogeology/Environmental/Civil Engineering Services & Compliance Stipulation Agreement -- Services range from Site Remediation Management & Baseline Environmental Report Preparation (Project Coordination, Oversight, Sample Collection) at large bus facilities.

Mr. Lockwood conducted site/facility investigations and provided, on an accelerated time schedule, site investigations and remedial action planning and design for dissolved and free phase groundwater contamination treatment systems.

NYSDEC Spill Program Compliance - In 2005, an Oil Delivery Company had caused a substantial Oil Spill at one of the client's depots; the new release brought attention to outstanding issues required under an existing Stipulation Agreement, although Cleanup tasks were in compliance. The NYSDEC issued a new Order of Consent, with an accelerated time schedule. Under Mr. Lockwood direction, the PWGC team completed an accelerated Site Assessment (delineating the extent of LNAPL and dissolved contamination at the site) and submitted a Remedial Action Plan and preliminary treatment system design to meet the accelerated schedule. Mr. Lockwood managed PWGC construction oversight of the selected remedy and performed operation/maintenance of the remedial system.

PA, City Industries Superfund Site - Winter Park, FL.

Mr. Lockwood managed the preparation of work plans, health and safety plans, project schedule, and budget estimate. He coordinated and supervised soil boring/monitoring well installations and soil and groundwater sampling activities. Analyses were conducted for volatile organics, semi-volatile organics, and chlorinated compounds. Mr. Lockwood served as the primary author of the PA report.

Department of Transportation Facilities - Nashville, TN.

Managed RIs and prepared RI reports and CAPs at several Department of Transportation facilities in Tennessee. Investigations included preparation of work plans, installation of boring and monitoring well networks, and preparation of an RI report. The CAPs included the performance of aquifer pumping tests. The RI report contained options for recovery and treatment of soil and groundwater contamination with dissolved and free phase petroleum compounds. Mr. Lockwood served as primary author of the RI reports and CAP.

Loring AFB Operable Unit 5 RI - Caribou, ME

Field Team Leader for the RI Investigation, Loring AFB - The field effort extended over six months and included the complete investigation of three separate sites. Field activities included the installation of Geoprobos® (250), soil borings (50), and monitoring wells (25) including three multiport Westbay wells; and groundwater, stormwater, and sediment sampling. Mr. Lockwood's responsibilities included preparation of Statements of Work, client interface, and RI report preparation.



APPENDIX D

LABORATORY SOPS FOR PFAS ANALYSIS

LST1802.A –Remedial Investigation Work Plan

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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	PFTTrDA	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 3 μ L 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- μ L 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 PTFE 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- μ L 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 C₁₈ column (2.1 x 150 mm) packed with 5 μ m d_p C₁₈ 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 (CH₃OH, CAS#: 67-56-1) – High purity, demonstrated to be free of analytes and interferences.
- 8.1.3** AMMONIUM ACETATE (NH₄C₂H₃O₂, 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/ μ L) – Prepare the IS PDS at a concentration of 0.5-2 ng/ μ L. 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/ μ L)	Vol. of IS Stock (mL)	Final Vol. of IS PDS (mL)	Final Conc. of IS PDS (ng/ μ L)
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/ μ L) – Prepare the SUR PDS at a concentration of 0.5-2 ng/ μ L. 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/ μ L)	Vol. of SUR Stock (mL)	Final Vol. of SUR PDS (L)	Final Conc. of SUR PDS (ng/ μ L)
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

PFTTrDA	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 ($PIR = Mean \pm HR_{PIR}$) meet the upper and lower recovery limits as shown below

The Upper PIR Limit must be $\leq 150\%$ recovery.

$$\frac{Mean + HR_{PIR}}{Fortified\ Concentration} \times 100\% \leq 150\%$$

The Lower PIR Limit must be $\geq 50\%$ 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 $\leq 30\%$. 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 $\leq 50\%$. 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 $\leq 30\%$ 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 $\leq 50\%$ 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 $\pm 30\%$ of the expected value. If measured analyte concentrations are not of acceptable

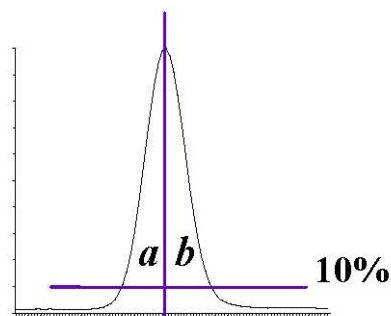
accuracy, check the entire analytical procedure to locate and correct the problem.

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 ¹³C-PFHxA and ¹³C-PFDA and 40 ng/L for d₅-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 \rightarrow 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 $\pm 30\%$ of the true value. The calculated amount for the lowest calibration point for each analyte must be within $\pm 50\%$ and the SUR must be within $\pm 30\%$ 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 $\pm 30\%$ 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 ₂ O)	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 °C

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
PFTTrDA	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	PUnA	563	519
22	PDoA	613	569
23	PTrDA	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
PERFLUOROALKYLCARBOXYLIC 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	PFTTrDA *	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
PERFLUOROOCETANESULFONAMIDES (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
PERFLUOROOCETANESULFONAMIDOACETIC ACIDS		
N-methyl perfluorooctanesulfonamidoacetic acid	NMeFOSAA *	2355-31-9
N-ethyl perfluorooctanesulfonamidoacetic acid	NEtFOSAA *	2991-50-6
NATIVE PERFLUOROOCETANESULFONAMIDOETHANOLS (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- μ ls.
- 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 PTFE 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- μ L 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 C₁₈ column (2.1 x 50 mm) packed with 1.7 μ m d_p C₁₈ 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 (CH₃OH, CAS#: 67-56-1) – High purity, demonstrated to be free of analytes and interferences.
 - 8.1.3 AMMONIUM ACETATE (NH₄C₂H₃O₂, CAS#: 631-61-8) – High purity, demonstrated to be free of analytes and interferences.
 - 8.1.4 ACETIC ACID (H₃CCOOH, 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 1 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 (NH₃, CAS#: 1336-21-6) – High purity, demonstrated to be free of analytes and interferences.
 - 8.1.9 Sodium Acetate (NaOOCCH₃, 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
PFTTrDA	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
9CIPF3ONS	50,000	0.04	4	500
11CIPF3OUdS	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 ₂ O (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

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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 ($PIR = Mean \pm HR_{PIR}$) meet the upper and lower recovery limits as shown below

The Upper PIR Limit must be $\leq 150\%$ recovery.

$$\frac{Mean + HR_{PIR}}{Fortified\ Concentration} \times 100\% \leq 150\%$$

The Lower PIR Limit must be $\geq 50\%$ 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 $\leq 30\%$ of the true value for medium and high level replicates, and $\leq 50\%$ 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 $\leq 30\%$. 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 $\leq 50\%$. 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 $\leq 30\%$ 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 $\leq 50\%$ 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 \pm

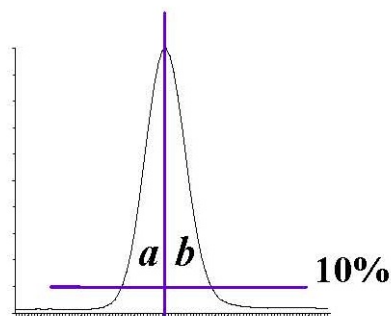
30% of the expected value. If measured analyte concentrations are not of acceptable accuracy, check the entire analytical procedure to locate and correct the problem.

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

- 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

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- 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) into a 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 $\pm 30\%$ 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 $\pm 50\%$ of the true value. The calculated amount for the lowest calibration point for each analyte must be within $\pm 50\%$. 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:

$$C_{ex} = (\text{Area of target analyte} * \text{Concentration of Labeled analog}) / (\text{area of labeled analog} * \text{CF})$$

$$C_s = (C_{ex} / \text{sample volume in ml}) * 1000$$

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 $\pm 30\%$ 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 ₂ O)	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 °C

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	

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#	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

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

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.

PACKAGING & LABELLING

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

Transport Emergency Card: TEC (R)-61GT5-II

SAFE STORAGE

Separated from strong oxidants, acids, halogens, food and feedstuffs. Well closed.

IPCS

International
 Programme on
 Chemical Safety



Prepared in the context of cooperation between the International Programme on Chemical Safety and the European Commission ©
 IPCS 2005

SEE IMPORTANT INFORMATION ON THE BACK.

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/m³ 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/cm³

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

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

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

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.

PACKAGING & LABELLING

T Symbol
 N Symbol
 R: 45-50/53
 S: 53-45-60-61

EMERGENCY RESPONSE**SAFE STORAGE**

Well closed.

IPCS

International
 Programme on
 Chemical Safety



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 IPCS 2005

SEE IMPORTANT INFORMATION ON THE BACK.

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

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

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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SEE IMPORTANT INFORMATION ON THE BACK.

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/cm³

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

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

BENZO(b)FLUORANTHENE**0720**

March 1999

CAS No: 205-99-2
RTECS No: CU1400000
EC No: 601-034-00-4Benz(e)acephenanthrylene
2,3-Benzofluoranthene
Benzo(e)fluoranthene
3,4-Benzofluoranthene
C₂₀H₁₂
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.	

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/m³.

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

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

BENZO(k)FLUORANTHENE**0721**

March 1999

CAS No: 207-08-9
RTECS No: DF6350000
EC No: 601-036-00-5Dibenzo(b,jk)fluorene
8,9-Benzofluoranthene
11,12-Benzofluoranthene
C₂₀H₁₂
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

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.

PACKAGING & LABELLINGT 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/m³.

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

LEGAL NOTICE

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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.



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/m³ 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

LEGAL NOTICE

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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

C₂₂H₁₄

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

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.

PACKAGING & LABELLING

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**

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INDENO(1,2,3-cd)PYRENE**0730**

March 1999

CAS No: 193-39-5
RTECS No: NK9300000o-Phenylenepyrene
2,3-Phenylenepyrene
C₂₂H₁₂
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

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.

PACKAGING & LABELLING**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/m³.

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

LEGAL NOTICE

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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.

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/m³ 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/m³; (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/cm³
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

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible

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.

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/m³ as TWA; (skin); A4; BEI issued; (ACGIH 2004).
MAK: 0.1 mg/m³; 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

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible



APPENDIX F FIELD ACCIDENT REPORT

LST1802.A –Remedial Investigation Work Plan

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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

